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Product type designation         BG09           Contact characteristics	Product designation			Power contactor
Number of poles         nr.         3           Rated insulation voltage Ui IEC/EN         V         690           Operational frequency         min         Hz         25           Operational frequency         min         Hz         400           IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (≤40°C)         A         20           AC-1 (≤40°C)         A         20         AC-1 (≤40°C)         A         20           Operational current le         AC-1 (≤40°C)         A         20         AC-3 (≤400V \$55°C)         A         9         AC-4 (400V)         A           Rated operational power AC-3 (T≤55°C)         230V         kW         4         415V         kW         4.           4415V         kW         4.5         500V         kW         4.           440V         kW         4.5         500V         kW         4.           500V         kW         8         400V         kW         4.           690V         kW         8         400V         kW         4.           690V         kW         14         500V         kW         2.           Short-time				BG09
Rated insulation voltage UI IEC/EN         V         690           Rated inpulse withstand voltage Uimp         KV         6           Operational frequency         min         Hz         25           min         Hz         20           Operational current le         AC-1 (≤40°C)         A         20           AC-3 (≤440V ≤55°C)         A         9         AC-3 (≤440V ≤55°C)         A         9           AC-3 (≤440V ≤55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2         400V         kW         4           Advov         kW         4.3         440V         kW         4.5           Stoot/         KW         4.3         440V         kW         4.5           Stoot/         kW         4.3         440V         kW         4.5           Stoot/         kW         16         690V         kW         2.6           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         96           Protection fuse         gG (IEC)         A         20         at/10           Making capacity (RMS value)         A         92				
Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         1EC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (≤40°C)         A         20         AC-1 (≤40°C)         A         9           AC-3 (≤400V ≤55°C)         A         9         AC-3 (≤400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2         400V         kW         4.3           440V         kW         4.3         440V         kW         4.5         500V         kW         5           Rated operational power AC-1 (T≤40°C)         230V         kW         4.3         440V         kW         14           500V         kW         5         500V         kW         14           500V         kW         14         500V         kW         14           500V         kW         14         500V         kW         14           500V         kW         14         500V         14         500V         14           500V         kW         14				
Operational frequency         min         Hz         25           max         Hz         400         16C Conventional free air thermal current lth         A         20           Operational current le         AC-1 (s40°C)         A         20           AC-3 (s440V s55°C)         A         9         AC-4 (400V)         A           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2         400V         kW         4           Rated operational power AC-3 (T≤55°C)         230V         kW         4.3         440V         kW         4.3           Rated operational power AC-1 (T≤40°C)         230V         kW         4.5         500V         kW         5           Rated operational power AC-1 (T≤40°C)         230V         kW         8         400V         kW         14           500V         kW         16         690V         kW         2           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         96           Protection fuse         gG (IEC)         A         92           Breaking capacity (RMS value)         A         92         690V         A         72           S00V         A         72         500V         A<				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			kV	6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Operational frequency			
IEC Conventional free air thermal current Ith         A         20           Operational current le         AC-1 (540°C)         A         20           AC-1 (555°C)         A         130           AC-3 (5440V 55°C)         A         9           AC-4 (400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2           400V         kW         4.3         440V         kW         4.3           440V         kW         4.5         500V         kW         5           Rated operational power AC-1 (T≤40°C)         230V         kW         8         400V         kW         14           500V         kW         5         5         500V         kW         14           690V         kW         14         5         500V         kW         22           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         9         9           Protection fuse         gG (IEC)         A         20         aM (IEC)         10           Making capacity (RMS value)         A         92         5         690V         A         72           Resistance per pole (average value)		min		
Operational current le         AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         130         AC-3 (≤440°C)         A         9           AC-3 (≤440°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2         400V         kW         4.3           415V         kW         4.3         440V         kW         4.5         500V         kW         5           690V         kW         5         690V         kW         8         400V         kW         14           500V         kW         16         690V         kW         16           690V         kW         16         690V         kW         16           690V         kW         22          36         92           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         96           Protection fuse         gG (IEC)         A         10           Making capacity (RMS value)         A         92         36         30         72           Breaking capacity at voltage         440V         A         72         500V		max		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			A	20
$\begin{array}{c ccccc} AC-1 (S55°C) & A & 130 \\ AC-3 (S440V S55°C) & A & 9 \\ AC-3 (W0V) & A & 4 \\ \hline \\ Rated operational power AC-3 (T \le 55°C) & & & & \\ & & & & $	Operational current le		_	
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
Rated operational power AC-3 (T≤55°C)230VkW2.2400VkW4415VkW4.3440VkW4.5500VkW5Rated operational power AC-1 (T≤40°C)230VkW230VkW8400VkW14500VkW14500VkW16690VkW22Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10AMaking capacity (RMS value)A92Breaking capacity at voltage440VA72690VA72690VAPower dissipation per pole (average value)mΩ10Power dissipation per pole (average value)thW4AC3W0.8111Tightening torque for terminatsminNm0.8minNm0.59maxNm1		, , ,		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		AC-4 (400V)	A	4
$\begin{array}{c} 400V & kW & 4\\ 415V & kW & 4.3\\ 440V & kW & 4.5\\ 500V & kW & 5\\ \hline \end{array}$ Rated operational power AC-1 (T<40°C) $\begin{array}{c} 230V & kW & 8\\ 400V & kW & 14\\ 500V & kW & 14\\ 500V & kW & 16\\ 690V & kW & 22\\ \hline \end{array}$ Short-time allowable current for 10s (IEC/EN60947-1) A 96 $\begin{array}{c} 9G (IEC) & A & 20\\ aM (IEC) & A & 10\\ \hline \end{array}$ Protection fuse $\begin{array}{c} gG (IEC) & A & 20\\ aM (IEC) & A & 10\\ \hline \end{array}$ Breaking capacity (RMS value) A 92 Breaking capacity at voltage $\begin{array}{c} 440V & A & 72\\ 500V & A & 72\\ \hline \end{array}$ Resistance per pole (average value) MQ 10 Power dissipation per pole (average value) \\\hline \end{array} Tightening torque for terminals $\begin{array}{c} \min & Nm & 0.8\\ \max & Nm & 1\\ \min & lbin & 0.59\\ \hline \end{array}$	Rated operational power AC-3 (1≤55°C)			
$\begin{array}{c ccccc} & 415 V & kW & 4.3 \\ & 440 V & kW & 4.5 \\ & 500 V & kW & 5 \\ \hline \end{array} \\ \hline \bigg $ \\ \hline \bigg  \\ \hline \bigg  \\ \hline \bigg  \hline \Biggl \bigg  \\ \hline \Biggl \bigg  \hline \Biggl \bigg  \hline \Biggl \bigg  \\ \hline \bigg  \hline \Biggl \bigg  \hline \Biggl \bigg  \\ \hline \bigg  \hline \Biggl \bigg  \hline \Biggl \bigg  \\ \hline \bigg  \hline \Biggl \bigg  \\ \hline \bigg  \hline \bigg  \\ \hline \Biggr  \\ \hline \Biggr  \\ \hline \Biggr  \\ \hline \bigg  \\ \bigg  \\ \hline \bigg  \\ \hline \bigg  \\ \hline \bigg  \\ \hline \bigg  \\ \Biggl  \\ \Biggl  \\ \Biggl \bigg  \\ \Biggl \bigg  \\ \Biggl  \\ \Biggl  \\ \Biggl  \\ \bigg  \\ \Biggl  \\ \bigg  \\ \bigg  \\ \Biggl  \\ \bigg  \\  \\				
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				
Rated operational power AC-1 (T≤40°C) $230V$ kW8 $400V$ kW14 $500V$ kW16 $690V$ kW22Short-time allowable current for 10s (IEC/EN60947-1)AProtection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72 $690V$ A72 $690V$ A72Resistance per pole (average value)m $\Omega$ 10Power dissipation per pole (average value)IthW4AC3W0.81Tightening torque for terminalsminNm0.8minlbin0.59Nm1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Deted energtional neuron AC 4 (T<40°C)	6907	KVV	5
$\begin{array}{c cccc} 400 & k & 14 \\ 500 & k & 16 \\ 690 & k & 22 \\ \hline \end{array}$	Rated operational power AC-1 (TS40 C)	2201/	1.1.1/	0
$\begin{array}{c cccc} & 500 \lor & k & 4 & 16 \\ \hline 690 \lor & k & 22 \\ \hline \end{array}$				
690VkW22Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72500VA72690VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC3W0.81Tightening torque for terminalsminNm0.8maxNm1min1bin0.59				
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Protection fuse       gG (IEC)       A       20         aM (IEC)       A       10         Making capacity (RMS value)       A       92         Breaking capacity at voltage       440V       A       72         S00V       A       72       690V       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC3       W       0.81         Tightening torque for terminals       min       Nm       1.8         min       Nm       1.9       10	Short-time allowable current for 10s (IEC/EN60947-1)	8901		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Α	90
aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72440VA72500VA72690VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC3W0.81Tightening torque for terminalsminNm0.8maxNm1min1bin0.59	Totection ruse		Δ	20
Making capacity (RMS value)A92Breaking capacity at voltage440VA72440VA72500VA72690VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC3W0.81Tightening torque for terminalsminNm0.8minIbin0.59				
Breaking capacity at voltage       440V       A       72         440V       A       72         500V       A       72         690V       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC3       W       0.81         Tightening torque for terminals       min       Nm       0.8         min       Nm       1       0.59	Making capacity (RMS value)			
$\begin{array}{cccc} 440 & A & 72 \\ 500 & A & 72 \\ \hline 500 & A & 72 \\ \hline 690 & A & 72 \\ \hline \\ $				52
500V 690VA72 72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4 AC3IthW4 AC3W0.81Tightening torque for terminalsminNm0.8 maxminNm1 U Display10	Dreaking suparity at voltage	440\/	Δ	72
690V       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC3       W       0.81         Tightening torque for terminals       min       Nm       0.8         max       Nm       1         min       Ibin       0.59				
Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC3       W       0.81         Tightening torque for terminals       min       Nm       0.8         min       Nm       1         min       Ibin       0.59				
Power dissipation per pole (average value) Ith W 4 AC3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59	Resistance per pole (average value)			
Ith     W     4       AC3     W     0.81       Tightening torque for terminals     min     Nm     0.8       max     Nm     1       min     Ibin     0.59				
AC3W0.81Tightening torque for terminalsminNm0.8maxNm11minIbin0.59		Ith	W	4
Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59				
min Nm 0.8 max Nm 1 min Ibin 0.59	Tightening torque for terminals			
max Nm 1 min Ibin 0.59		min	Nm	0.8
min Ibin 0.59				



Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1           min         Ibtt         0.8           max         nmin         Ibtt         0.74           Max number of wires simultaneously connectable         nr.         2           Conductor section         min         mm²         0.75           max         mm²         0.75         mm²         0.75           Flexible wid lug conductor section         min         mm²         2.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Power terminal protection according to IEC/EN 60529         max         mr²         1.5           Power terminal protection according to IEC/EN 60529         mora         1.82         30°           Potenting position         normal         atlowable         430°         30°           Fixing         Screw / DN rail         38mm         30°         36mm           Auxiliary contact charactonistics         1         NC         Thermal current th         A         10           IEC/EN 6047-5-1 designation         A         10         16/C/N 60474-51         230V         A         3				
max         Nm         1           min         lbft         0.8           max         nmax         lbft         0.74           Max number of wires simultaneously connectable         nr.         2           Conductor section         nr.         2           Flexible w/o lug conductor section         nmax         mm²         0.75           Flexible c/w lug conductor section         max         mm²         2.5           Flexible with insulated spade lug conductor section         mm²         1.5         max           max         mm²         2.5         Power terminal protection according to IEC/EN 60529         IP20 when wired           Machanical features         operating position         screw / DIN rall         35mm           Fixing         Screw / DIN rall         35mm         400 vertical plan           allowable         1.0         Thermal current Ith         A         10           IEC/EN 60947-5-1 designation         A 800 - 2600         Operating current DC13         240 vertical plan           Querating current DC13         240 vertical plan         1.9         500 v         A         1.9           Operating current DC13         240 vertical plan         1.9         500 v         A         1.9	Tightening torque for coil terminal			
min         Ibit         0.8           max         Not         74           Max number of wires simultaneously connectable         nr.         2           Conductor section         nr.         2           Conductor section         min         mm²         0.75           Flexible w/o lug conductor section         mm²         2.5           Flexible with insulated spade lug conductor section         mm²         1.5           max         mm²         2.5           Power terminal protection according to IEC/EN 60529         mm²         1.5           max         mm²         2.5           Power terminal protection according to IEC/EN 60529         wertical plan         allowable         ±30°           Fixing         Screw / DIN rail         35mm         30°         Screw / DIN rail           Auxiliary contact         1 NC         1 NC         Thermal current th         1 NC           Thermal current th         4 10         1 EC/EN 60947-5-1 designation         A 600 - Q600         Qerating current DC12         230V         A 3         3           Qperating current DC12         10V         A 2.9         400V         A 1.4         60V         A 1.4           Operating current DC13         24V         A		min	Nm	0.8
max         Ibit         0.74           Max number of wires simultaneously connectable         nr.         2           Conductor section         nin         mm²         2.5           Flexible w/o lug conductor section         min         mm²         2.5           Flexible c/w lug conductor section         min         mm²         1.5           max         mm²         2.5         1.5           Flexible with insulated spade lug conductor section         mm²         1.5           max         mm²         2.5         1.5           Power terminal protection according to IEC/EN 60529         IP20 when wired         430°           Machanical features         vertical plan         allowable         430°           Fixing         35mm         35mm         35mm           Weight         g         182         400°           Auxilary contact characteristics         1         NC           Thermal current th         A         10         15           Coperating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           Operating current D		max	Nm	1
Max number of wires simultaneously connectable       nr.       2         Conductor section       min       mm <sup>2</sup> 2.5         Flexible v/w lug conductor section       max       mm <sup>2</sup> 2.5         Flexible v/w lug conductor section       max       mm <sup>2</sup> 2.5         Flexible v/w lug conductor section       max       mm <sup>2</sup> 2.5         Power terminal protection according to IEC/EN 60529       IP20 when wired         Machanical features       allowable       430°         Operating position       normal       vertical plan         allowable       30°       Screw / DIN rail         Fixing       Screw / DIN rail       Screw / DIN rail         Weight       g       182         Auxiliary contact characteristics       1 NC         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A600 - Q600         Operating current DC12       110V       A       2.9         Querating current DC13       24V       A       2.9         Querating current DC13       24V       A       2.9         Querating current DC13       24V       A       2.9         Querations       600V       A       1.4		min	lbft	0.8
Max number of wires simultaneously connectable nr. 2 Conductor section Fexible w/o lug conductor section Fexible c/w lug conductor section Fexible c/w lug conductor section min mm <sup>2</sup> 2.5 Flexible c/w lug conductor section Fexible with insulated spade lug conductor section min mm <sup>2</sup> 1.5 max mm <sup>2</sup> 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Machanical features Operating position Fixing Screw / DIN rail		max	lbft	
Conductor section Flexible w/o lug conductor section min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Machanical features Operating current DC12 IP20 when wired Action Action Derating current DC13 IP20 Power terminal file Cycles 2000000 Safety related dta Performance level B10d according to IEN/ISO 13489-1 Performance level B10d according to IEC/EN 60947-4-1 Performance level B10d	Max number of wires simultaneously connectable			
Flexible w/o lug conductor section         mm         mm <sup>2</sup> 0.75           Flexible c/w lug conductor section         mm         mm <sup>2</sup> 2.5           Flexible c/w lug conductor section         mm         mm <sup>2</sup> 2.5           Flexible with insulated spade lug conductor section         mm         1.5         max         mm <sup>2</sup> 2.5           Power terminal protection according to IEC/EN 60529         mom <sup>2</sup> 1.5         max         mm <sup>2</sup> 2.5           Power terminal protection according to IEC/EN 60529         mom <sup>2</sup> 1.5         max         mm <sup>2</sup> 2.5           Power terminal protection according to IEC/EN 60529         mom <sup>2</sup> 2.5         max         mm <sup>2</sup> 2.5           Power terminal protection according to IEC/EN 60529         max         mm <sup>2</sup> 2.5         mm <sup>2</sup> 2.5           Power terminal protection according to IEC/EN 60529         max         weitage         ±30°         Screw / DIN rall           Advitary contact         g         182         Auxiliary contact         1 NC         Thermal current th         A         10         EC/EN 603/7-5-1 designation         A600 - Q600         Qerating current DC12         110V         A         2.9         44V         A         1.4				-
min         mm²         0.75 max           Flexible c/w lug conductor section         min         mm²         1.5 max           Flexible with insulated spade lug conductor section         min         mm²         1.5 max           Power terminal protection according to IEC/EN 60529         IP20 when wired           Mechanical features         morm²         1.5           Operating position         normal         vertical plan           allowable         ±30°         Screw / DIN rail           Auxiliary contact characteristics         g         182           Type of contact         1 NC         Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600         Operating current DC15         230V         A         3           Querating current DC12         110V         A         2.9         Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9         000V         A         1.4           Operating current DC13         24V         A         2.9         000V         A         1.4           Operating current DC13         24V         A         2.9         0.55         220V         A         0.3 <td></td> <td></td> <td></td> <td></td>				
max         mm2         2.5           Flexible c/w lug conductor section         min         mm2         1.5           max         mm2         2.5           Flexible with insulated spade lug conductor section         mm1         mm2         1.5           max         mm2         2.5         Power terminal protection according to IEC/EN 60529         IP20 when wired           Mechanical features         vertical plan         allowable         ±30°           Operating position         screw / DIN rail         35mm           Weight         g         182           Auxilary contact characteristics         yertical plan         35mm           Type of contact         1 NC         10           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current DC12         230V         A         3           Querating current DC13         24V         A         2.9           Operating current DC13         29V         A         1.4           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         0.5           220V         A         0.5	Flexible w/o lug conductor section	min	$mm^2$	0.75
Flexible c/w lug conductor section         min         mm²         1.5           max         mm²         1.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Power terminal protection according to IEC/EN 60529         IP20 when wired         Mechanical features         IP20 when wired           Operating position         normal         vertical plan         ±30°           Fixing         Screw / DIN rail         35mm           Weight         g         182           Auxiliary contact characteristics         1 NC           Thermal current th         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current DC12         110V         A           Querating current DC12         110V         A           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           Querating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           Querating current DC13         24V         A         2.9           Queret ing current DC13         2000000         20000				
min       mm²       1.5         min       mm²       2.5         Flexible with insulated spade lug conductor section       min       mm²       2.5         Power terminal protection according to IEC/EN 60529       IP20 when wired       Me5hanical features       IP20 when wired         Operating position       normal allowable       ±30°       screw / DIN rail 35mm         Fixing       g       182       Adviliary contact       1 NC         Thermal current Ith       A       10       IEC/EN 60947-5-1 designation       A600 - Q600         Operating current AC15       230V       A       3         Goperating current DC12       110V       A       2.9         Operating current DC13       24V       A       1.4         Operating current DC13       24V       A       2.9         Operating current DC13       24V       A       1.2         110V       A       2.9       A       3         600V       A       1.2       110V       A       2.9         Operating current DC13       24V       A       1.4       60V       A       1.2         110V       A       2.9       200V       A       0.5       220V       A <td></td> <td>max</td> <td>mm²</td> <td>2.5</td>		max	mm²	2.5
max         mm²         2.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           max         mm²         1.5         max         mm²         2.5           Power terminal protection according to IEC/EN 60529         IP20 when wired         IP20 when wired           Mechanical features         overtical plan         30°         \$           Fixing         Screw / DIN rail         35mm         35mm           Weight         g         182         \$           Auxiliary contact characteristics         1 NC         \$           Thermal current lth         A         10         \$           IEC/EN 60947-5-1 designation         A600 - Q600         \$         \$           Operating current DC12         110V         A         1.9           Operating current DC13         24V         A         2.9           Operating         0.1         0.55         220V         A         0.55           220V         A	Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section         min       min       mm²       1.5         max       mm²       1.5         Power terminal protection according to IEC/EN 60529       IP20 when wired         Mechanical features       iP20 when wired         Operating position       normal allowable       ±30°         Fixing       screw / DIN rail       35mm         Weight       g       182         Auxiliary contact characteristics       1 NC         Themal current lth       A       10         TEC/EN 60947-S-1 designation       A600 - Q600         Operating current DC12       230V       A       3         400V       A       1.9       500V       A       1.4         Operating current DC12       110V       A       2.9       48V       A       1.4         Operating current DC13       24V       A       2.9       48V       A       1.4         GoW       A       1.2       110V       A       2.9       2000000       220V       A       0.5       220V       A       0.5       220V       A       0.5       220V       A       0.5       220V       A       0.6       125V		min		
min     mm²     1.5       Power terminal protection according to IEC/EN 60529     IP20 when wired       Mechanical features     operating position     normal     vertical plan       allowable     ±30°     Screw / DIN rail       String     Screw / DIN rail     35mm       Weight     g     182       Auxilary contact characteristics     1 NC       Thermal current lth     A     10       IEC/EN 60947-5-1 designation     A600 - 0600       Operating current AC15     230V     A       200     A     3       400V     A     1.9       500V     A     1.4       Operating current DC12     110V     A       24V     A     2.9       Operating current DC13     24V     A       25V     A     0.5       220V     A     0.3       600V     A     1.2       110V     A     0.6       125V     A     0.3       600V     A     0.3       600V     A     0.3       600V     A     0.1       Cperations     Vertext plan     Vertext plan       Mechanical life     cycles     500000       Satety related data     20000000   <		max	mm²	2.5
max         mm²         2.5           Power terminal protection according to IEC/EN 60529         IP20 when wired           Mechanical features         normal         vertical plan           Operating position         allowable         ±30°           Fixing         Screw / DIN rail         35mm           Weight         g         182           Auxiliary contact characteristics         1 NC           Thermal current Ith         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A           200V         A         1.9           500V         A         1.9           500V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         0.6           125V         A         0.55         200V         A           200V         A         0.1         0.6         22VV         A	Flexible with insulated spade lug conductor section			
Power terminal protection according to IEC/EN 60529       IP20 when wired         Mechanical leatures       normal allowable       ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       182         Auxiliary contact characteristics       1 NC         Thermal current th       A       10         IEC/EN 60947-5-1 designation       A600 - 0600         Operating current AC15       230V       A         Querating current DC12       110V       A       2.9         Operating current DC13       24V       A       2.9         Querations       24V       A       2.9         Querating current DC13       24V       A       1.2         Querating current DC13       24V       A       2.9         Mechanical life       <		min	mm²	1.5
Mechanical features         Operating position         normal allowable       ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       182         Auxiliary contact characteristics       1 NC         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A600 - Q600         Operating current AC15       230V       A         230V       A       3         400V       A       1.9         500V       A       1.4         Operating current DC12       110V       A         110V       A       2.9         Operating current DC13       24V       A         24V       A       2.9         Operating current DC13       24V       A         24V       A       2.9         Operating current DC13       24V       A         24V       A       0.6         125V       A       0.55         220V       A       0.3         600V       A       0.1         Operating       cycles       500000         Electrical life       cycles       500000         Safety related data<		max	mm²	2.5
Mechanical features         Operating position         normal allowable       ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       182         Auxiliary contact characteristics       1 NC         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A600 - Q600         Operating current AC15       230V       A         230V       A       3         400V       A       1.9         500V       A       1.4         Operating current DC12       110V       A         110V       A       2.9         Operating current DC13       24V       A         24V       A       2.9         Operating current DC13       24V       A         24V       A       2.9         Operating current DC13       24V       A         24V       A       0.6         125V       A       0.55         220V       A       0.3         600V       A       0.1         Operating       cycles       500000         Electrical life       cycles       500000         Safety related data<	Power terminal protection according to IEC/EN 60529			
Operating position       normal allowable       vertical plan ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       182         Auxiliary contact characteristics       Type of contact       1 NC         Thermal current th       A       10         IEC/EN 60947-5-1 designation       A600 - Q600         Operating current AC15       230V       A         230V       A       3         400V       A       1.9         500V       A       1.4         Operating current DC12       110V       A       2.9         Operating current DC13       24V       A       2.9         Operating current DC13       24V       A       2.9         Operating current DC13       24V       A       2.9         Querations       220V       A       0.5         220V       A       0.5       220V       A       0.3         600V       A       0.1       0.1       0         Operations       V       A       0.2       0         Mechanical life       cycles       500000       500000         Safety related data       Veres       5000000       0				
normal allowable     vertical plan ±30°       Fixing     Screw / DIN rail 35mm       Weight     g       Auxiliary contact characteristics     1 NC       Thermal current lth     A       10     10       IEC/EN 60947-5-1 designation     A600 - Q600       Operating current AC15     230V     A       230V     A     3       400V     A     1.9       500V     A     1.4       Operating current DC12     110V     A       24V     A     2.9       Operating current DC13     24V     A       24V     A     2.9       48V     A     1.4       60V     A     1.2       110V     A     0.6       125V     A     0.5       220V     A     0.3       60V     A     1.2       110V     A     0.6       125V     A     0.3       60V     A     0.1       Operations     20000000       Electrical life     cycles     500000       Safety related data     20000000       Merchanical load     cycles     500000       Mirror contats according to EN/ISO 13489-1     rated load     cycles     500000<				
allowable         ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         182           Auxiliary contact characteristics         1 NC           Thermal current th         A         10           EC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A           200V         A         1.4           Operating current DC12         110V         A           200V         A         1.4           Operating current DC13         24V         A           24V         A         2.9           Operating current DC13         24V         A           24V         A         2.9           Operating current DC13         24V         A           24V         A         2.9           Operating current DC13         24V         A           2500V         A         1.4           60V         A         1.2           110V         A         0.6           125V         A         0.55           220V         A         0.3           600V         A         0.1           Coperations         <		normal		vortical plan
Fixing         Screw / DIN rail 35mm           Weight         g         182           Auxiliary contact characteristics         1         NC           Type of contact         1         NC           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A           200V         A         1.9           500V         A         1.4           Operating current DC12         110V         A           200V         A         1.4           Operating current DC13         24V         A           24V         A         2.9           48V         A         1.4           60V         A         1.2           110V         A         0.6           125V         A         0.5           220V         A         0.3           600V         A         0.1           Operations         2000000         2000000           Safety related data         2000000         2000000           Safety related data         2000000         2000000           Mechanical load         cycles         <				
Fixing         35mm           Weight         g         182           Auxiliary contact characteristics         1 NC           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A           230V         A         3           400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           Mechanical life         cycles         500000         2000000           Electrical life         cycles         500000         2000000           Safety related data         Perfo	a	llowable		
Solution         Solution           Auxiliary contact characteristics         1 NC           Type of contact         1 NC           Thermal current lth         A           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         0           Operating current DC13         24V         A         2.9         0           Operating current DC13         24V         A         2.9         0           Operating current DC13         24V         A         2.9         0         0         0.6         125V         A         0.6         125V         A         0.6         125V         A         0.6         125V         A         0.3         600V         A         0.1         0	Fixing			
Auxiliary contact characteristics Type of contact Type of contact Thermal current lth A I C Thermal current lth A I C C C C C C C C C C C C C C C C C C				
Type of contact         1 NC           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         0           Operating current DC13         24V         A         2.9         0         0.6         1.2           110V         A         0.6         1.25V         A         0.55         220V         A         0.3         000V         A         0.1         0         <			g	182
Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         0           Operating current DC13         24V         A         2.9         0           Operating current DC13         24V         A         2.9         0           Operating current DC13         24V         A         2.9         0           Quertation Current DC13         24V         A         2.9         0           Mexicon Current DC13         24V         A         2.9         0           Quertations         220V         A         0.6         125V         A         0.55         220V         A         0.3         00V         A         0.1         0 <td>Auxiliary contact characteristics</td> <td></td> <td></td> <td></td>	Auxiliary contact characteristics			
IEC/EN 60947-5-1 designation         A600 - Q600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         0           Operating current DC13         24V         A         2.9         0         0.6         1.2         110V         A         0.6         125V         A         0.55         220V         A         0.3         600V         A         0.1         0	Type of contact			1 NC
Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9         48V         A         1.4           Operating current DC13         24V         A         2.9         48V         A         1.4           60V         A         1.2         110V         A         0.6         125V         A         0.3         60VV         A         0.1           Operations         0.0         400V         A         0.1         000000         000000         000000         000000         000000         000000         000000         0000000         000000         0000000         000000         0000000 </td <td>Thermal current Ith</td> <td></td> <td>А</td> <td>10</td>	Thermal current Ith		А	10
Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         2.9         Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9         48V         A         1.4           Operating current DC13         24V         A         2.9         48V         A         1.4           60V         A         1.2         110V         A         0.6         125V         A         0.3         60VV         A         0.1           Operations         0.0         400V         A         0.1         000000         000000         000000         000000         000000         000000         000000         0000000         000000         0000000         000000         0000000 </td <td>IEC/EN 60947-5-1 designation</td> <td></td> <td></td> <td>A600 - Q600</td>	IEC/EN 60947-5-1 designation			A600 - Q600
230V         A         3           400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           48V         A         1.4         60V         A         1.2           110V         A         2.9         48V         A         1.4           60V         A         1.2         110V         A         0.6           125V         A         0.55         220V         A         0.3           600V         A         0.1         0         0         0           Operations         Use         500000         0         0         0           Mechanical life         cycles         20000000         0         0           Electrical life         cycles         500000         0         0           Safety related data         1         1         1         0           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         500000           Mirror contats according to IEC/EN 609474-4-1         yes         200000000         0				
400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           Operating current DC13         24V         A         2.9           A8V         A         1.4         60V         A         1.2           110V         A         0.6         125V         A         0.55           220V         A         0.3         600V         A         0.1           Operations         cycles         500000         500000         53644           Electrical life         cycles         500000         53644         500000         53644           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         500000         500000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         500000         500000           Mirror contats according to IEC/EN 609474-4-1         yes         500000         500000         500000         500000         500000         500000         500000         500000         500000         500000         500000         500000         500000		230\/	Δ	3
500V         A         1.4           Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           48V         A         1.4         60V         A         1.2           110V         A         0.6         125V         A         0.55           220V         A         0.3         600V         A         0.1           Operations         cycles         2000000         Electrical life         cycles         500000           Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load         cycles         500000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         Yes           EMC compatibility         Yes         AC coil operating         Yes				
Operating current DC12         110V         A         2.9           Operating current DC13         24V         A         2.9           48V         A         1.4         60V         A         1.2           110V         A         0.6         125V         A         0.55           220V         A         0.3         600V         A         0.1           Operations         X         X         X         X         X           Mechanical life         cycles         20000000         Electrical life         500000         Safety related data           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         500000           Mirror contats according to IEC/EN 609474-4-1         yes         EMC compatibility         Yes           AC coil operating         Yes         X         X         X				
110V         A         2.9           Operating current DC13         24V         A         2.9           48V         A         1.4         60V         A         1.2           110V         A         0.6         125V         A         0.55           220V         A         0.3         600V         A         0.1           Operations         X         X         X         X         X           Mechanical life         cycles         20000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         20000000         20000000         20000000         2000000         20000000	On evolving automat DC12	500 v	A	1.4
Operating current DC13         24V         A         2.9           48V         A         1.4           60V         A         1.2           110V         A         0.6           125V         A         0.55           220V         A         0.3           600V         A         0.1           Operations	Operating current DC12		_	
24V       A       2.9         48V       A       1.4         60V       A       1.2         110V       A       0.6         125V       A       0.55         220V       A       0.3         600V       A       0.1         Operations         Mechanical life       cycles       20000000         Electrical life       cycles       500000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       500000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       Yes       Yes		110V	A	2.9
48V       A       1.4         60V       A       1.2         110V       A       0.6         125V       A       0.55         220V       A       0.3         600V       A       0.1         Operations         Mechanical life       cycles       20000000         Electrical life       cycles       500000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       500000         Mirror contats according to EN/ISO 13489-1         Face load       cycles       500000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       Yes       AC coil operating       Yes	Operating current DC13			
60VA1.2110VA0.6125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles500000Safety related datarated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000EMC compatibilityYesYesAC coil operatingKesKesKes		24V	Α	2.9
110VA0.6125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles2000000Safety related datacycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityYesAC coil operating		48V	А	1.4
125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000Mirror contats according to IEC/EN 609474-4-1yes20000000AC coil operatingKesKesKes		60V	А	1.2
125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000Mirror contats according to IEC/EN 609474-4-1yes20000000AC coil operatingKesKesKes		110V	А	0.6
220V 600VA0.3 0.1OperationsMechanical lifecycles20000000Electrical lifecycles500000Safety related datarated load mechanical loadcycles500000Suffy related dataPerformance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityYesAC coil operating			А	
600VA0.1Operationscycles2000000Mechanical lifecycles500000Electrical lifecycles500000Safety related datarated loadcyclesPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityYesAC coil operatingYes				
OperationsMechanical lifecycles2000000Electrical lifecycles500000Safety related datarated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000mechanical loadcycles50000020000000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityYesYes				
Mechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles500000mechanical loadcycles20000000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityYesAC coil operating	Operations	500 V		J
Electrical life       cycles       500000         Safety related data       Performance level B10d according to EN/ISO 13489-1       rated load       cycles       500000         mechanical load       cycles       500000       20000000       20000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       Yes       AC coil operating			oveloe	2000000
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Yes AC coil operating				
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Yes AC coil operating			cycles	500000
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes AC coil operating				
mechanical load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       Yes         AC coil operating       Yes	-			
Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       Yes         AC coil operating       Yes	ra	ted load	cycles	500000
EMC compatibility Yes AC coil operating	mechan	ical load	cycles	20000000
EMC compatibility Yes AC coil operating	Mirror contats according to IEC/EN 609474-4-1			yes
AC coil operating				

## Rated AC voltage at 50/60Hz, 60Hz



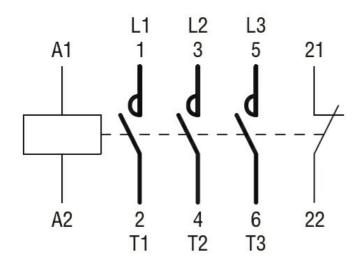
			min	V	12
			max	V	575
AC operating voltage					
	of 50/60Hz coil p				
		pick-up	min	%Us	75
			max	%Us %Us	115
		drop-out	max	/003	110
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC operating voltage					
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz			05
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	ered at 60Hz	-لم ما	VA	20
			in-rush	VA VA	30 4
Dissipation at holding	<20°C 50H-		holding	W	4 0.95
DC coil operating				vv	0.00
DC rated control volta	ade				
	.90		min	V	6
			max	V	250
Average coil consum	ption ≤20°C				
J. J			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency	/				
Mechanical operation	S			cycles/h	3600
Operating times					
Average time for Us of					
	in AC	<b>.</b>			
		Closing NO			10
			min	ms	12
			max	ms	21
		Opening NO		<b>m</b> -	0
			min	ms ms	9 18
		Closing NC	max	ms	10
			min	ms	17
			max	ms	26
		Opening NC	max	1113	20
			min	ms	7
			max	ms	, 17
	in DC		inax		

**Closing NO** 



		min	ms	18
		max	ms	25
	Opening	NO		
		min	ms	2
		max	ms	3
	Closing I	NC		
		min	ms	3
		max	ms	5
	Opening			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	A	7.6
		at 600V	A	6.1
Yielded mechanical				
	for single-phase AC motor		<u>.</u>	
		110/120V	hp	0.5
		230V	hp	1.5
	for three-phase AC motor			0
		200/208V	hp	2
		220/230V	hp	3
		460/480V	hp	5
		575/600V	hp	5
	xiliary contacts according to UL			A600 - Q600
General USE				
	Contactor		٨	20
Ambient conditions	Contactor	AC current	A	20
Ambient conditions	Contactor	AC current	A	20
Ambient conditions Temperature		AC current	A	20
	Contactor Operating temperature			
		min	°C	-40
	Operating temperature			
		min max	°C °C	-40 60
	Operating temperature	min max min	℃ ℃ ℃	-40 60 -55
Temperature	Operating temperature	min max	℃ ℃ ℃ ℃	-40 60 -55 70
Temperature Max altitude	Operating temperature Storage temperature	min max min	℃ ℃ ℃	-40 60 -55
Temperature Max altitude Resistance & Protect	Operating temperature Storage temperature	min max min	℃ ℃ ℃ ℃	-40 60 -55 70 3000
Temperature Max altitude Resistance & Protec Pollution degree	Operating temperature Storage temperature	min max min	℃ ℃ ℃ ℃	-40 60 -55 70
Temperature Max altitude Resistance & Protec Pollution degree Dimensions	Operating temperature          Storage temperature         ction	min max min max	℃ ℃ ℃ ℃	-40 60 -55 70 3000
Temperature Max altitude Resistance & Protect Pollution degree Dimensions	Operating temperature          Storage temperature         ction	min max min max	°C °C °C °C m	-40 60 -55 70 3000
Temperature Max altitude Resistance & Protect Pollution degree Dimensions	Operating temperature          Storage temperature         ction	min max min max min max	°C °C °C °C m	-40 60 -55 70 3000 3
Temperature Max altitude Resistance & Protect Pollution degree Dimensions $4.4 \rightarrow (1.73^{\circ}) \rightarrow (0.17^{\circ})$ $(0.17^{\circ}) \oplus (0.17^{\circ}) \oplus (0.17^{\circ})$ $(0.33^{\circ}) \oplus (0.17^{\circ}) \oplus (0.17^{$	Operating temperature          Storage temperature         ction	min max min max min max $\overset{(1.73^{*})}{\overset{(1.73^{*})}{\overset{(1.73^{*})}{\overset{(1.37^{*})}{\overset{(1.37^{*})}{\overset{(1.27^{*})}{(1$	°C °C °C °C m	-40 60 -55 70 3000 3





## Certifications and compliance

oompnanoo	Comp	liance
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ETIM 6

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching