

## MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 15KA AT 400V, 20...25A



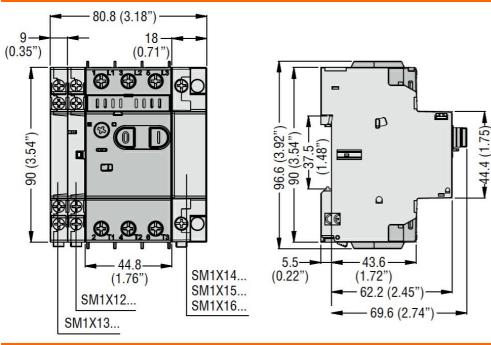
| Product designation Product type designation   |   |                                  |                | Motor protective circui<br>breaker<br>SM1P |
|--|---|----------------------------------|----------------|--|
| Electrical features  |   |                                  |                | OWITI                                      |
| Number of poles  |   |                                  | nr.            | 3  |
| Magnetic protection  |   |                                  |                | yes  |
| Thermal protection   |   |                                  |                | yes  |
| Phase failure detection  |   |                                  |                | Yes  |
| Rated insulation voltage l   | Ji IEC/EN   |                                  | V              | 690  |
| Rated impulse withstand  |   |                                  | kV             | 6  |
| Rated frequency  | 0 1   |                                  | Hz             | 50/60                                      |
| hermal trip adjustment ra  | ange  |                                  |                | 2025                                       |
| Rated current (In)   |   |                                  | Α              | 25   |
| Magnetic tripping  |   |                                  |                | 13 x ln                                    |
| otal power dissipation   |   |                                  | W              | 2.83                                       |
|  | current breaking capacity (lcs) at AC                   |                                  | •••            | 2.00                                       |
| porational short official c  | number broaking capacity (103) at 710                   | 230V                             | kA             | 50   |
|  |   | 400V                             | kA             | 5  |
|  |   | 440V                             | kA             | 5  |
|  |   | 500V                             | kA             | 5  |
|  |   |                                  | kA             | 2  |
| Marrian con alabat airectic acc  | went has bin a none site (les) at AC                    | 690V                             | KA             |  |
| IAXIIIUIII SNOTI-CITCUIT CUI   | rrent breaking capacity (Icu) at AC                     | 0001                             | I. A           | F0   |
|  |   | 230V                             | kA             | 50   |
|  |   | 400V                             | kA             | 15   |
|  |   | 440V                             | kA             | 10   |
|  |   | 500V                             | kA             | 10   |
|  |   | 690V                             | kA             | 2  |
| ripping class  |   |                                  |                | 10A  |
| C Utilization category   |   |                                  |                | A  |
| perations  |   |                                  |                |  |
| Nechanical life  |   |                                  | cycles         | 100000                                     |
| Electrical life  |   |                                  | cycles         | 100000                                     |
| Mechanical features  |   |                                  |                |  |
| ightening torque for term  | ninals  |                                  |                |  |
|  |   | min                              | Nm             | 2.5  |
|  |   | max                              | Nm             | 3  |
|  |   | min                              | lbin           | 1.8  |
|  |   | max                              | lbin           | 2.2  |
| Max number of wires sim  | ultaneously connectable                                 |                                  | nr.            | 2  |
| Conductor section  |   |                                  |                |  |
|  | AWG/Kcmil   |                                  |                |  |
|  |   | min                              |                | 16   |
|  |   | max                              |                | 8  |
|  | Flexible w/o lug conductor section                      | ····                             |                |  |
|  | r lexible w/o lug corluactor section                    | min                              | mm²            | 1  |
|  | Florible of white conductor coeffice                    | 111111                           | 111111         |  |
|  | Flexible c/w lug conductor section                      |                                  | mm²            | 1  |
|  | Florible with insulated and de live and destruction and | min                              | mm²            | 1  |
|  | Flexible with insulated spade lug conductor section     |                                  |                | 4  |
|  |   | min                              | mm²            | 1  |
|  |   |                                  |                | 니니?  |
|  | II IFO/FN 00700   |                                  |                | PH2  |
| ower terminal protection   | n according to IEC/EN 60529                             |                                  |                | IP20                                       |
| ower terminal protection   | n according to IEC/EN 60529                             |                                  | m              | IP20                                       |
| ower terminal protection able stripping lenght   | n according to IEC/EN 60529                             | main circuit                     | mm             |  |
| ower terminal protection cable stripping lenght mbient conditions  | n according to IEC/EN 60529                             |                                  | mm             | IP20                                       |
| ower terminal protection cable stripping lenght mbient conditions  |   |                                  | mm             | IP20                                       |
| ower terminal protection cable stripping lenght mbient conditions  | Operating temperature                                   | main circuit                     |                | 1 1  |
| ower terminal protection cable stripping lenght mbient conditions  |   | main circuit<br>min              | °C             | 1P20<br>1                                  |
| Power terminal protection<br>Cable stripping lenght<br>Ambient conditions                                  | Operating temperature                                   | main circuit                     |                | 1 1  |
| ower terminal protection cable stripping lenght mbient conditions  |   | main circuit<br>min<br>max       | °C<br>°C       | 1<br>1<br>-20<br>60                        |
| ower terminal protection cable stripping lenght mbient conditions  | Operating temperature                                   | main circuit min max min         | °C<br>°C       | 1<br>-20<br>60<br>-50                      |
| ower terminal protection cable stripping lenght mbient conditions  | Operating temperature  Storage temperature              | main circuit<br>min<br>max       | °C<br>°C       | 1<br>1<br>-20<br>60                        |
| ower terminal protection cable stripping lenght mbient conditions  | Operating temperature                                   | main circuit  min  max  min  max | °C<br>°C<br>°C | 1<br>-20<br>60<br>-50<br>80                |
| ower terminal protection cable stripping lenght mbient conditions  | Operating temperature  Storage temperature              | main circuit min max min         | °C °C °C       | -20<br>60<br>-50<br>80                     |
| Corewdriver Cower terminal protection Cable stripping lenght Cambient conditions Cemperature  Max altitude | Operating temperature  Storage temperature              | main circuit  min  max  min  max | °C<br>°C<br>°C | 1<br>-20<br>60<br>-50<br>80                |

**ENERGY AND AUTOMATION** 

## MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 15KA AT 400V,

| Operating position   |                     |                                |
|--|---------------------|--------------------------------|
| normal   |                     | Vertical plan                  |
| allowable  |                     | Any                            |
| Fixing   |                     | Screw / DIN rail 35mm          |
| Weight   | g                   | 350                            |
| UL technical data  |                     |                                |
| JL508 / UL60947-4-1 Manual Motor Controller - Short circuit current                                    |                     |                                |
| Motor Disconnect   |                     |                                |
| at 240V  | kA                  | 5                              |
| at 480V  | kA                  | 5                              |
| protection   |                     | Fuse or CB                     |
| Group Motor Installation   |                     |                                |
| at 240V  | kA                  | 5                              |
| at 480V  | kA                  | 5                              |
| protection   |                     | Fuse or CB                     |
| Tap Conductor Protection   |                     |                                |
| at 480Y/277V   | kA                  | 50                             |
| at 600Y/347V   | kA                  | 50                             |
| JL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current |                     |                                |
| UL508 / UL 60947-4-1 Manual Self Protected Combination N   | lotor <b>Ю</b> ontr | oller5(Type E) Short-circuit o |
| UL508 / UL 60947-4-1 Manual Self Protected Combination N   |                     |                                |
| UL508 / UL 60947-4-1 Manual Self Protected Combination N   | lotor <b>Ø</b> ontr | oller5(Type E) Short-circuit o |
| Maximum UL/CSA horsepower ratings single-phase   |                     |                                |
| at 110V-120V   | hp                  | 2                              |
| at 220V-240V   | hp                  | 3                              |
| Maximum UL/CSA horsepower ratings three-phase, 3-pole  |                     |                                |
| at 200V-208V   | hp                  | 5                              |
| at 220V-240V   | hp                  | 7.5                            |
| at 440V-480V   | hp                  | 15                             |
| at 550V-600V   | hp                  | 20                             |

## Dimensions

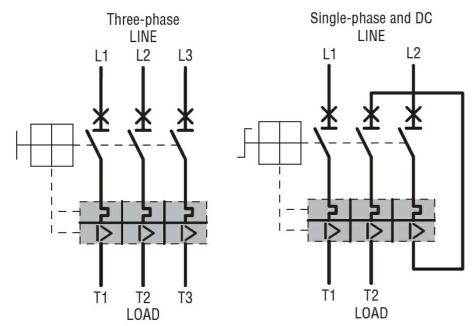


Wiring diagrams



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MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 15KA AT 400V,



| Certifications and com | npliance         |  |
|------------------------|------------------|--|
| Certifications         |                  |  |
|                        | CSA C22.2 n° 14  |  |
|                        | IEC/EN 60947-1   |  |
|                        | IEC/EN 60947-2   |  |
|                        | IEC/EN 60947-4-1 |  |
|                        | UL508            |  |
| Compliance             |                  |  |

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