## Controls

## Manual Motor Protectors - Accessories

Front Mounting Auxiliary Contact Block - ACBF

| For use with |  | Auxiliary Contacts |  | Catalog Number | List <br> Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | NO | NC |  |  |  |
| MPW16 <br> MPW25 <br> MPW65 <br> 1) |  |  |  | ACBF-11 | \$20 | Z4 |
| MPW100 |  |  |  | ACBF-11 MPW100 | \$20 | Z4 |

Left side Auxiliary Contact Block - ACBS


Note

1) The following accessories can be assembled at the same time: 1 ACBF +1 URMP/SRMP +1 TSB-22 or 1 ACBS +1 URMP/SRMP +1 TSB-22

## Controls

## Manual Motor Protectors－Accessories

Trip Signalling Block－TSB－22

| For use with |  | Description | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW25 MPW65 1） |  | - Equipped with 2 auxiliary contacts（1NO＋1NC） for overload trip signalling and 2 other auxiliary contacts（ $1 \mathrm{NO}+1 \mathrm{NC}$ ）for short－circuit trip signalling． <br> －To reset the MPW after a short－circuit，the blue flag must be manually reset after the cause of the failure has been solved． <br> －Left side auxiliary contacts can be assembled together with the trip signalling block． <br> －Left side assembly only | TSB－22 | \＄38 | Z4 |
| MPW100 |  | －Equipped with 2 auxiliary contacts（1NO＋1NC） for overload and short－circuit trip signalling． <br> －Left side assembly only | TSB SC11 MPW100 | \＄38 | Z4 |

## Undervoltage Release－URMP

| For use with |  | Voltage | Catalog Number | List | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 <br> MPW25 <br> MPW65 <br> 1） |  | $\begin{aligned} & 208 \mathrm{~V} 60 \mathrm{~Hz} \\ & 24 \mathrm{~V} 50 / 60 \mathrm{~Hz} \\ & 400-415 \mathrm{~V} 50 \mathrm{~Hz} / 480 \mathrm{~V} 60 \mathrm{~Hz} \\ & 110 \mathrm{~V} 50 \mathrm{~Hz} / 120 \mathrm{~V} 60 \mathrm{~Hz} \\ & 240 \mathrm{~V} 60 \mathrm{~Hz} \end{aligned}$ | URMP V23 <br> URMP D02 <br> URMP V47 <br> URMP V18 <br> URMP V30 | \＄56 | Z4 |
| MPW100 | Note： <br> －Operating voltage $>0,85 x$ Ue <br> －Non operating voltage $0,35 \ldots . .0,7 \times \mathrm{Ue}$ | $110 \mathrm{~V} 50 \mathrm{~Hz} / 120 \mathrm{~V} 60 \mathrm{~Hz}$ $220-230 \mathrm{~V} 50 \mathrm{~Hz} / 240-260 \mathrm{~V} 60 \mathrm{~Hz}$ $380-400 \mathrm{~V} 50 \mathrm{~Hz} / 440-460 \mathrm{~V} 60 \mathrm{~Hz}$ | URMP V18 MPW100 URMP V33 MPW100 URMP V43 MPW100 | \＄56 | Z4 |

Note：1）The following accessories can be coupled at the same time： 1 ACBF +1 URMP／SRMP +1 TSB－22 or 1 ACBS +1 URMP／SRMP +1 TSB－22


## Controls

## Manual Motor Protectors - Accessories

Shunt Release - SRMP

| For use with |  | Voltage | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 <br> MPW25 <br> MPW65 <br> 1) |  | 20-24V 50/60Hz $100-127 \mathrm{~V} 50 / 60 \mathrm{~Hz}$ $200-240 \mathrm{~V} 50 / 60 \mathrm{~Hz}$ | SRMP D51 <br> SRMP D59 <br> SRMP D65 | \$56 | Z4 |
| MPW100 | Note: - Operating voltage $>0.7 \mathrm{x}$ Ue | 110 V 5 Hz / 120 V 60 Hz $220-230 \mathrm{~V} 50 \mathrm{~Hz} / 240-260 \mathrm{~V} 60 \mathrm{~Hz}$ | SRMP V18 MPW100 <br> SRMP V33 MPW100 | \$56 | Z4 |

Note: 1) The following accessories can be coupled at the same time: 1 ACBF + 1 URMP/SRMP + 1 TSB or 1 ACBS + 1 URMP/SRMP + 1 TSB

Link modules for manual motor protector assembly + contactors - ECCMP

| For use with |  | Description | Contactors | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 |  | - For direct connection (electrical and mechanical) of motor circuit breakers to contactors. Note: <br> - Not applicable to CWM contactors with DC coils. | CWC07... 16 | ECCMP-C016 | \$20 | Z4 |
| MPW25 |  |  | $\begin{aligned} & \text { CWC07... } 16 \\ & \text { CWC025 } \\ & \text { CWM9... } 25 \\ & \text { CWM } 32 . . .40 \end{aligned}$ | ECCMP-CO ECCMP-C025 ECCMP-25 ECCMP-32 |  |  |

## Controls

## Manual Motor Protectors - Accessories

Through-the-door Rotary Handle - RMMP and MR


Standard IEC Enclosure - PE


## Controls

Manual Motor Protectors - Accessories

Large IEC Enclosure - LPE55

| For use with |  | Description | Terminals | Handle color | Catalog Number | List <br> Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPW25 |  | - Degree of protection: IP55 <br> - For use with MPW25 + URMP/SRMP + ACBF11 + ACBS + PL lamps <br> - Two cable entry knockouts. top and bottom <br> - Handle can be locked with up to 3 padlocks at OFF position. | With neutral and ground terminals | Black <br> Red with yellow background | LPE55GN <br> LPE55GN-E | \$55 | Z4 |

Manual Motor Protector mounting adapter + contactor - MA

| For use with |  | Description | Contactors | Catalog Number | List <br> Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPW25 |  | Used for direct on line starters 45 mm width | CWC07... 25 CWM9...CWM25 | MA45DOL | \$40 |  |
| MPW25 |  | Used for reversing starters 90 mm width | $2 \times$ CWC07... 25 CWM9...CWM25 | MA90RVS | \$50 | Z4 |
| PW25 |  | Used for star-delta motor starters 90 mm width | $2 \times \text { CWC07... } 25$ <br> CWM9...CWM25 | MA90SDS | \$50 |  |



## Controls

## Manual Motor Protectors－Accessories

Insulators－IB

| For use with |  | Description | Catalog Number | List <br> Price | Multiplier <br> Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW100 |  |  |  |  |  |

Three－phase feeder terminal－FTBBS and LST25

| For use with |  | Description | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 MPW25 |  | －For feeding the commoning blocks； <br> －Rated insulation voltage：690VAC； <br> －I：63A； <br> －Terminals： $6-25 \mathrm{~mm}^{2}$ rigid wire and $6-16 \mathrm{~mm}^{2}$ flexible wire with terminal． | FTBBS | \＄32 | Z4 |
| MPW25 |  | －Block module for＂Type E＂Combination motor <br> Controller＂in accordance with UL（LST25＋MPW＋TSB－22）； <br> －Rated insulation voltage：690VAC； <br> －Ie：63A． <br> －Terminals：8－20AWG． | LST25 | \＄30 | Z4 |

Three－phase commoning blocks for MPW without side auxiliary contacts－BBS45

| For use with |  | Description | Numbers of MPW | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 MPW25 |  | －For parallel blocking of side－by－side mounted MPW，without side auxiliary contacts； <br> －Enables the use of frontal auxiliary contact block ACBF－11； $-\mathrm{U}_{\mathrm{e}}: \text { 690VAC; }$ <br> $-\mathrm{I}_{\mathrm{e}}: 63 \mathrm{~A}$ ． | 2 | BBS45－2 | \＄22 | Z4 |
|  | ตn¢mannma |  | 3 | BBS45－3 | \＄24 |  |
|  | manmmmanmmanm |  | 4 | BBS45－4 | \＄31 |  |
|  |  |  | 5 | BBS45－5 | \＄41 |  |

Three－phase commoning blocks for MPW with side auxiliary contacts－BBS54

| For use with |  | Description | Numbers of MPW | Catalog Number | List <br> Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16／ MPW25 | カッグラッチ <br> man hnn han <br> ant hnn han Kant <br> ant han han ham han | －For parallel blocking of side－by－side mounted MPW； <br> －Enables the use of side auxiliary contact block ACBS <br> －U ：690VAC； <br> －Ie ${ }_{\mathrm{e}}: 63 \mathrm{~A}$ ． | 2 | BBS54－2 | \＄22 | Z4 |
|  |  |  | 3 | BBS54－3 | \＄24 |  |
|  |  |  | 4 | BBS54－4 | \＄31 |  |
|  |  |  | 5 | BBS54－5 | \＄41 |  |

## Controls

## Manual Motor Protectors - Accessories

## Current Limiter - CLT25

| For use with |  | Description | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW25 |  | - For protecting electrical circuits where high short-circuit breaking capacity is required: 100kA @ 480VAC; <br> Note: This accessory must be used together with a MPW motor protective. | CLT25 | \$100 | Z4 |

Shround for unused terminals - CSD

| For use with |  | Description | Catalog Number | List Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BBS45 and BBS54 |  | Protection against direct contact to unused terminals on energized BBS45 and BBS54 three-phase commoning block. | CSD | \$10 | Z4 |

## Scale Cover - SCMP

| For use with |  | Description | Catalog <br> Number | List <br> Price | Multiplier <br> Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 <br> MPW25 <br> MPW65 |  |  |  |  |  |

Push-in-lugs - PLMP

| For use with |  | Description | Catalog Number | List <br> Price | Multiplier Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MPW16 MPW25 MPW65 |  | For direct assembly of motor protective circuit breaker onto any surface using screws. | PLMP | \$0.50 | Z4 |

## Controls

## Manual Motor Protectors - MPW Technical Data

## Auxiliary Contact Block Ratings



## Controls

Manual Motor Protectors - MPW Technical Data

Trip Signalling Block

| TYPE |  |  | TSB-22 | TSB-11 MPW100 |
| :---: | :---: | :---: | :---: | :---: |
| Rated Insulation Voltage Ui |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Operating Voltage Ue |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Impulse Voltage Uimp |  |  |  |  |
| Acc. IEC60947-1 |  | [kV] | 6 |  |
| Overvoltage Category |  |  | III |  |
| Pollution Degree |  |  | 3 |  |
| Life Span |  |  |  |  |
| Mechanical |  | [ops.] | 100000 |  |
| Electrical (le max.) |  | [ops.] | 100000 |  |
| Rated Thermal Current lth |  | [A] | 10 |  |
| Rated Operating Current le |  |  |  |  |
| Acc. IEC 60947-5-1 / AC-15 | 24 V | [A] | 6 |  |
|  | 110-127V | [A] | 6 |  |
|  | $220-240 \mathrm{~V}$ | [A] | 6 |  |
|  | 380-400V | [A] | 3 |  |
|  | $415-450 \mathrm{~V}$ | [A] | 3 |  |
|  | 500 V | [A] | 2 |  |
|  | 660-690V | [A] | 1 |  |
| Acc. UL; CSA |  |  | A600 |  |
| Rated Operating Current le |  |  |  |  |
| Acc. IEC 60947-5-1 / DC-13 | 24 V | [A] | 2 |  |
|  | 48 V | [A] | 0.5 |  |
|  | 60 V | [A] | 0.5 |  |
|  | 110 V | [A] | 0.5 |  |
|  | 220 V | [A] | 0.25 |  |
|  | 440 V | [A] | 0.1 |  |
| Acc. UL; CSA |  |  | Q600 |  |
| Short Circuit rating without welding |  |  |  |  |
| gL/gG |  | [A] | 6 |  |
| MCB |  | [A] | 6 |  |
| Type of Terminal | Screw Driver |  | Philips \#2 |  |
| Terminal Capacity |  |  |  |  |
| Solid or Stranded |  | [mm2] | 1 or $2 \times(0.5$ to 2.5$)$ |  |
| Solid or Stranded |  | AWG | 1 or $2 \times$ (18 to 14) |  |
| Tightening Torque |  | [N.m (b.in)] | 1.0-1.25 (6.5 .. 10) |  |

$\square$

## Controls

## Manual Motor Protectors - MPW Technical Data

Shunt Release Block

| TYPE |  |  | SRMP | SRMP MPW100 |
| :---: | :---: | :---: | :---: | :---: |
| Rated Insulation Voltage Ui |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Operating Voltage Ue |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Impulse Voltage Uimp |  |  |  |  |
| Acc. IEC60947-1 |  | [kV] | 6 |  |
| Overvoltage Category |  |  | III |  |
| Pollution Degree |  |  | 3 |  |
| Life Span |  |  |  |  |
| Mechanical |  | [ops.] | 100000 |  |
| Electrical (le max.) |  | [ops.] | 100000 |  |
| Actuating Voltage | x Us | [ $]$ | 0.7-1.1 |  |
| Power Consumption |  |  |  |  |
| Pull-In |  | [VA (W)] | 20.2 (13) | 8.5 (6) |
| Hold |  | [VA (W)] | 7.2 (2.4) | 3 (1.2) |
| Maximum Opening Time |  | [ms] | 20 |  |
| Short Circuit Rating without Welding |  |  |  |  |
| Fuse gL/gG |  | [A] | 10 |  |
| MCB |  | [A] | 6 |  |
| Type of Terminal | Screw Driver |  | Philips \#2 |  |
| Terminal Capacity |  |  |  |  |
| Solid or Stranded |  | [mm2] | 1 or $2 \times$ (0.5 to 2.5) |  |
| Solid or Stranded |  | AWG | 1 or $2 \times$ (18 to 14) |  |
| Tightening Torque |  | [N.m (b.in)] | 1.0-1.25 (6.5 .. 10) |  |

Under Voltage Release Block

| TYPE |  |  | URMP | URMP MPW100 |
| :---: | :---: | :---: | :---: | :---: |
| Rated Insulation Voltage Ui |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Operating Voltage Ue |  |  |  |  |
| Acc. IEC; VDE 0660 |  | [V] | 690 |  |
| Acc. UL; CSA |  | [V] | 600 |  |
| Rated Impulse Voltage Uimp |  |  |  |  |
| Acc. IEC60947-1 |  | [kV] | 6 |  |
| Overvoltage Category |  |  | III |  |
| Pollution Degree |  |  | 3 |  |
| Life Span |  |  |  |  |
| Mechanical |  | [ops.] | 100000 |  |
| Electrical (le max.) |  | [ops.] | 100000 |  |
| Pick-Up Voltage | x Us | [V] | 0.85-1.1 |  |
| Drop-Out Voltage | x Us | [V] | 0.7-0.35 |  |
| Power Consumption ${ }^{\text {P }}$ |  |  |  |  |
| Pull-In |  | [VA (W)] | 20.2 (13) | 8.5 (6) |
| Hold |  | [VA (W)] | 7.2 (2.4) | 3 (1.2) |
| Maximum Opening Time |  | [ms] | 20 |  |
| Short Circuit Rating without Welding |  |  |  |  |
| Fuse gL/gG |  | [A] | 10 |  |
| MCB |  | [A] | 6 |  |
| Type of Terminal | Screw Driver |  | Philips \#2 |  |
| Terminal Capacity |  |  |  |  |
| Solid or Stranded |  | [mm2] | 1 or $2 \times(0.5$ to 2.5$)$ |  |
| Solid or Stranded |  | AWG | 1 or $2 \times(18$ to 14) |  |
| Tightening Torque |  | [N.m] | 1.0-1.25 (6.5 .. 10) |  |

