

Switch-disconnector, 3 pole + N, 400 A, Without rotary handle and drive shaft, surface mounting



Part no. DMV-400N/1 Article no. 1814412

| Delivery | program |
|---------------|---------|
| Draduat range | |

| Delivery program | | | |
|--------------------------------------|----|-----|--|
| Product range | | | Switch-disconnector Main switch maintenance switch |
| Part group reference | | | DMV |
| Stop Function | | | optional |
| | | | Without rotary handle and drive shaft |
| Notes | | | visible contacts |
| Information about equipment supplied | | | auxiliary contact fitted by user. including connection materials |
| Number of poles | | | 3 pole + N (direct) |
| Auxiliary contacts | | | |
| \ ^t | | N/O | 0 |
| 7 | | N/C | 0 |
| Degree of Protection | | | IP00 IP20 with terminal cover |
| Design | | | surface mounting |
| | | | |
| Contact sequence | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | Р | kW | 180 |
| Rated uninterrupted current | lu | Α | 400 |
| | | | |

Technical data

| General | | | |
|---|-----------|----|--|
| Standards | | | IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3 |
| Certifications | | | CE, RoHs, KEMA, GOST-R, Lloyds |
| Ambient temperature | | | |
| Operation | 9 | °C | -25 - +55 |
| Storage | 9 | °C | -30 - +80 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated impulse withstand voltage | U_{imp} | kV | 8 |
| Rated insulation voltage | Ui | V | 1000 |
| Mounting position | | | As required |
| Protection against direct contact when actuated from front (EN 50274) | | | Finger and back-of-hand proof |
| Contacts | | | |
| Machanical variables | | | |

| Number of poles | | | 3 pole + N (direct) |
|--|-----------------|-------------------|---|
| Auxiliary contacts | | | |
| | | N/0 | 0 |
| | | N/C | 0 |
| lectrical characteristics | | | |
| Rated operational voltage | U _e | V AC | 690 |
| Rated uninterrupted current | I _u | Α | 400 |
| Note on rated uninterrupted current !u | | | Rated uninterrupted current lu is specified for max. cross-section. |
| Short-circuit rating | | | |
| fuse | | | 500/250 |
| Rated conditional short-circuit current | Iq | kA | In = 500: 50 |
| | •4 | | In = 250: 100 |
| Breaking current | | kA | In = 500: 40 In = 250: 33 |
| max. let-through energy | | kA ² s | In = 500: 1700 In = 250: 380 |
| Rated short-time withstand current (1 s current) | I _{cw} | A_{rms} | 12000 |
| Note on rated short-time withstand current lcw | | | Current for a time of 0.3 seconds |
| witching capacity | | | |
| Rated breaking capacity cos φ to IEC 60947-3 | | Α | |
| 400/415 V | | Α | 2664 |
| 500 V | | Α | 2032 |
| 690 V | | Α | 1120 |
| afe isolation to EN 61140 | | | |
| Current heat loss per contact at I _e | | W | 9 |
| ifespan, mechanical | Operations | | 10000 |
| AC | | | |
| AC-21A | | | |
| Rated operational current switch | | | |
| 400 V 415 V | I _e | Α | 400 |
| 500 V | I _e | Α | 400 |
| 690 V | I _e | Α | 400 |
| AC-22A | | | |
| Rated operational current switch | | | |
| 400 V 415 V | I _e | Α | 400 |
| 500 V | I _e | A | 400 |
| | | | |
| 690 V | I _e | Α | 315 |
| AC-23A | | | |
| Rated operational current switch | | | |
| 400 V 415 V | l _e | Α | 333 |
| 500 V | I _e | Α | 254 |
| 690 V | I _e | Α | 140 |
| Motor rating AC-23A, 50 - 60 Hz | Р | kW | |
| 400 V 415 V | Р | kW | 180 |
| 500 V | P | kW | 180 |
| 690 V | Р | kW | 132 |
| erminal capacities | | | |
| Flat conductor connection with busbars | | mm^2 | 240 |
| Ferminal screw | | | M10 x 20 |
| Max. tightening torque | | Nm | 20 |
| echnical safety parameters: | | | |
| Votes | | | B10 _d values as per EN ISO 13849-1, table C1 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|----|---|-----|
| Rated operational current for specified heat dissipation | In | Α | 400 |

| Heat dissipation per pole, current-dependent | P_{vid} | W | 9 |
|--|-------------------|----|--|
| Equipment heat dissipation, current-dependent | P_{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | | |
| 10.9.2 Power-frequency electric strength | | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| | | | |

Technical data ETIM 6.0

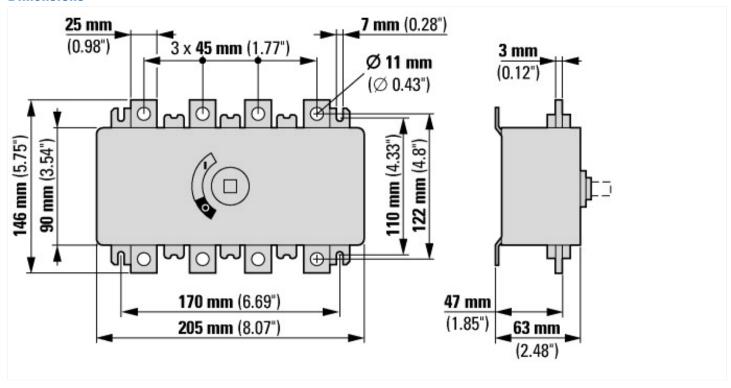
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

| Version as main switch | | No |
|---|----|-----------|
| Version as maintenance-/service switch | | No |
| Version as safety switch | | No |
| Version as emergency stop installation | | Yes |
| Version as reversing switch | | No |
| Max. rated operation voltage Ue AC | V | 690 |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current lu | А | 400 |
| Rated permanent current at AC-21, 400 V | А | 400 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated short-time withstand current lcw | kA | 12 |
| Rated operation power at AC-23, 400 V | kW | 180 |
| Switching power at 400 V | kW | 180 |
| Conditioned rated short-circuit current Iq | kA | 100 |
| Number of poles | | 3 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Number of auxiliary contacts as normally open contact | | 0 |
| | | |

| Number of auxiliary contacts as change-over contact | 0 |
|---|----------------------------|
| Motor drive optional | No |
| Motor drive integrated | No |
| Voltage release optional | No |
| Device construction | Complete device in housing |
| Suitable for ground mounting | Yes |
| Suitable for front mounting 4-hole | No |
| Suitable for front mounting center | No |
| Suitable for distribution board installation | No |
| Suitable for intermediate mounting | No |
| Colour control element | - |
| Type of control element | - |
| Interlockable | No |
| Type of electrical connection of main circuit | Screw connection |
| Degree of protection (IP), front side | IP20 |
| | |

Dimensions



Additional product information (links)

IL008008Z Switch-disconnectors

IL008008Z Switch-disconnectors

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008008ZU2016_11.pdf