

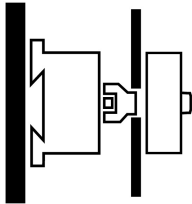
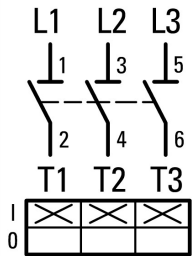
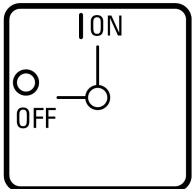


**Switch-disconnector, 3 pole, 250 A, With red rotary handle and yellow locking ring, rear mounting, with 400 mm metal shaft**

**Part no.** DMV-250/3/M4/P-R  
**Catalog No.** 6094966

**EL-Nummer (Norway)** 0001417203

## Delivery program

Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DMV
Stop Function			Emergency switching off function
Information about equipment supplied			With red rotary handle and yellow locking ring
Notes			auxiliary contact fitted by user.
Number of poles			With metal shaft for a control panel depth of 400 mm
			3 pole
<b>Auxiliary contacts</b>			
		N/O	0
		N/C	0
Notes			1 padlock, # 5 mm
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			rear mounting
			
Contact sequence			
Switching angle		°	90
Function			
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	147
Rated uninterrupted current	I <sub>u</sub>	A	250
Note on rated uninterrupted current I <sub>u</sub>			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
Connection technique			9 mm connection hole

## Technical data

### General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Certifications			CE, RoHs, KEMA, EAC, Lloyds
Ambient temperature			
Operation	θ	°C	-25 - +55
Storage	θ	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8
Rated insulation voltage	U <sub>i</sub>	V	1000
Mounting position			As required

### Contacts

Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/O	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U <sub>e</sub>	V AC	690
Rated uninterrupted current	I <sub>u</sub>	A	250
Note on rated uninterrupted current I <sub>u</sub>			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
Short-circuit rating			
fuse			500/250
Rated conditional short-circuit current	I <sub>q</sub>	kA	In = 500: 50 In = 250: 100
Breaking current		kA	In = 500: 40 In = 250: 33
max. let-through energy		kA <sup>2</sup> s	In = 500: 1700 In = 250: 380
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	12000
Note on rated short-time withstand current I <sub>cw</sub>			Current for a time of 0.3 seconds
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.75

### Switching capacity

Rated breaking capacity cos φ to IEC 60947-3		A	
400/415 V		A	2000
500 V		A	1760
690 V		A	1120
Safe isolation to EN 61140			
Current heat loss per contact at I <sub>e</sub>		W	3.75
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	250
500 V	I <sub>e</sub>	A	250
690 V	I <sub>e</sub>	A	250
AC-22A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	250
500 V	I <sub>e</sub>	A	250
690 V	I <sub>e</sub>	A	250
AC-23A			
Rated operational current switch			
400 V 415 V	I <sub>e</sub>	A	250
500 V	I <sub>e</sub>	A	220

690 V	I <sub>e</sub>	A	140
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	147
500 V	P	kW	160
690 V	P	kW	132

### Terminal capacities

Flat conductor connection with busbars		mm <sup>2</sup>	120
Stripping length		mm	21
Terminal screw			M8 x 20
Tightening torque for terminal screw		Nm	14

### Technical safety parameters:

Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
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## Design verification as per IEC/EN 61439

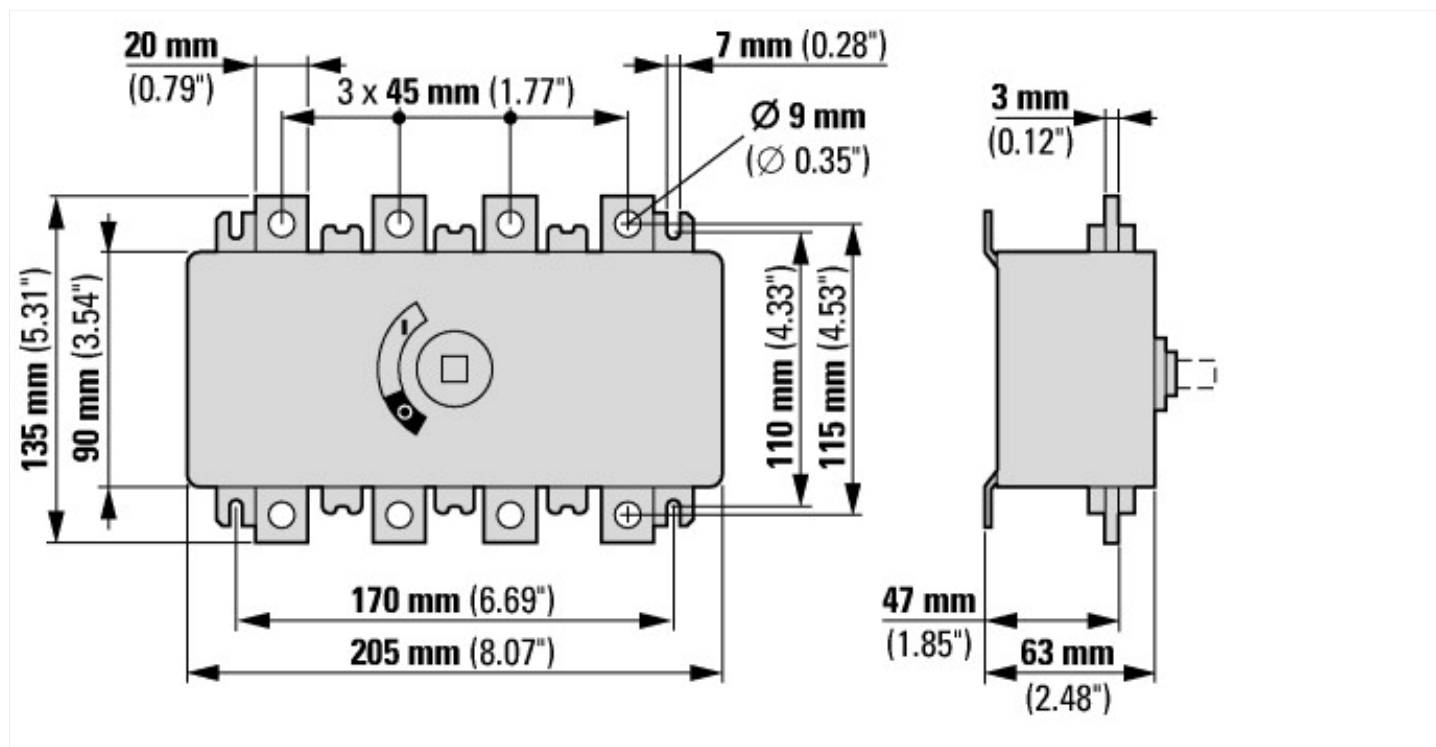
Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	250
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.75
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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 7.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss10.0.1-27-37-14-03 [AKF060013])			
Version as main switch			Yes

Version as maintenance-/service switch		Yes
Version as safety switch		Yes
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current Iu	A	250
Rated permanent current at AC-23, 400 V	A	250
Rated permanent current at AC-21, 400 V	A	250
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	12
Rated operation power at AC-23, 400 V	kW	250
Switching power at 400 V	kW	250
Conditioned rated short-circuit current Iq	kA	50
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		Built-in device fixed built-in technique
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Red
Type of control element		Toggle
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other

## Dimensions



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## Assets (links)

### Declaration of CE Conformity

00003044

### Instruction Leaflets

IL008008ZU2018\_05