DATASHEET - DMV-250/3/M4/P-R



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



DMV-250/3/M4/P-R Part no.

6094966 Catalog No.

EL-Nummer 0001417203

Delivery program Product range South-disconnector Manie south- Manie of transpare y avitating off function With metal shuff for a control jamed depth of M00 mm Notes Auxiliary contacts NOC NCC NCC NCC I padlock, #5 mm Lockable in the II/IV position Engine Design Contact sequence Lockable in the III/IV position Front Ites Contact sequence Li L	(Norway)			
Part group reference DMV Step Foection Emergency switching off function With red rotary handle and yellow locking ring Information about equipment supplied Notes With metal shart for a control panel depth of 400 mm Auxiliary contacts NO Noce No	Delivery program			
Stop Function Information about equipment supplied Information about equipment supplied Notes With media shaft for a control panel depth of 400 mm Auxiliary contacts NO 0 NC 0 NC 0 Notes 1 padicit, # 5 mm Locking facility Degree of Protection Design Cantact sequence Cantact sequence Switching angle Switching angle * 99 Function	Product range			Main switch
Information about equipment supplied Notes Number of poles Auxiliary contacts N/O 0 N/C 0	Part group reference			DMV
Information about equipment supplied Notes Locking facility Design Contact sequence Switching angle Function Switching angle Function Notes Locking facility Switching angle Function Switching angle Function Auxiliary contact (Htted by user. With motal shaft for a control panel depth of 400 mm Spole Auxiliary contacts N/O 0 N/C 0 I padicix, #5 mm Lockable in the 0 (Off) position Front IP65 Front IP65 For IP65	Stop Function			Emergency switching off function
Number of poles Auxiliary contacts Notes Locking facility Degree of Protection Contact sequence Contact sequence Switching angle Function Switching angle Function Switching angle Function Sign With metal shaft for a control panel degth of 400 mm 3 pole 1 paclock, # 5 mm Lockable in the 0 (0ff) position Front IP65 Tear mounting L1 L2 L3 L2 L3 L3 L5 L1 L2 L3 L1 L3 L5 L1 L5 L3 L1 L5 L3 L5 L5 L5 L5 L5 L5 L5 L5				With red rotary handle and yellow locking ring
Number of poles Auxiliary contacts NVC NCC NCC NCC 1 padlock, # 5 mm Lockable in the 0 (0ff) position Protraction Design Contact sequence Lil L2 L3 Lil L3 L5 Lil L3 L5 Lil L3 L5 Lil L3 L5 LIl L2 L3 LIl L2 L3 LIl L2 L3 LIl L3 L5 L1 L5 L3 L5	Information about equipment supplied			auxiliary contact fitted by user.
Auxiliary contacts N/O N/C N/C 1 padlock, #5 mm Locking facility Lockable in the 0 (0ff) position Peront IP55 Pear mounting Contact sequence L1 L2 L3 L1 L3 L5 L2 L4 L5 L5 L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L3 L5 L5 L5 L1 L2 L3 L1 L3 L5 L	Notes			With metal shaft for a control panel depth of 400 mm
Notes Notes Locking facility Degree of Protection Design Contact sequence Switching angle Function Switching angle Function NC 1 padlock, #5 mm Lockable in the 0 (0th) position Front IPSS rear mounting 1 1 1 2 L3 1 1 1 2 L3 1 1 1 2 L3 1 1 1 1 2 L3 1 1 1 1 2 L3 1 1 1 1 1 2 L3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of poles			3 pole
Notes Locking facility Locking facility Degree of Protection Design Contact sequence L1 L2 L3 L1 L3 L5 L2 L4 6 T1 T2 T3 L3 L5 L5 L5	Auxiliary contacts			
Notes Locking facility Degree of Protection Design Contact sequence Switching angle Function Notes 1 padlock, #5 mm Lockable in the 0 (0ff) position Front IP65 rear mounting 1 L2 L3 1	1		N/0	0
Locking facility Degree of Protection Design Contact sequence Switching angle Function Lockable in the Q (Off) position Front IP65 rear mounting Lil L2 L3 Lil L3 L5 L2 L4 L1 L2 L3 L1 L3 L5 L1 L2 L3 L1 L3 L5 L1 L2 L3 L1 L3 L5 L1	7		N/C	0
Degree of Protection Design Contact sequence Switching angle Front IP65 rear mounting To provide the provided to the pro	Notes			1 padlock, # 5 mm
Design rear mounting L1 L2 L3 L1 L2 L3 L1 L3 L4 Rear L4 R	Locking facility			Lockable in the 0 (Off) position
Contact sequence L1 L2 L3 L1 L3 L5 T1 T2 T3 Switching angle Function TON OFF	Degree of Protection			Front IP65
Switching angle Function Switching angle OFF OFF OFF OFF OFF OFF OFF O	Design			rear mounting
Switching angle Function Switching angle OFF OFF OFF OFF OFF OFF OFF O				
Function OFF	Contact sequence			$\frac{1}{2} \frac{1}{4} \frac{3}{6}$
O OFF	Switching angle		0	90
Motor rating AC-23A, 50 - 60 Hz				
	Motor rating AC-23A, 50 - 60 Hz			
400 V P kW 147	400 V	Р	kW	147
Rated uninterrupted current I _u A 250	Rated uninterrupted current	l _u	Α	250
Note on rated uninterrupted current I _u is specified for max. cross-section.	Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Connection technique 9 mm connection hole	Connection technique			9 mm connection hole

Technical data General

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 _{imp}	kV	8
Rated insulation voltage	U _i	V	1000
	O _I	•	
Mounting position Contacts			As required
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/O	0
		N/C	0
Electrical characteristics		, 0	
Rated operational voltage	U _e	V AC	690
			250
Rated uninterrupted current	I _u	Α	
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Short-circuit rating			
fuse			500/250
Rated conditional short-circuit current	Iq	kA	In = 500: 50 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}	\mathbf{A}_{rms}	12000
Note on rated short-time withstand current lcw			Current for a time of 0.3 seconds
Heat dissipation per pole, current-dependent	P _{vid}	W	3.75
Switching capacity			
Rated breaking capacity cos φ to IEC 60947-3		Α	
400/415 V		Α	2000
500 V		Α	1760
690 V		Α	1120
Safe isolation to EN 61140			
Current heat loss per contact at I _e		W	3.75
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	l _e	Α	250
500 V	I _e	Α	250
690 V	I _e	Α	250
AC-22A			
Rated operational current switch			
400 V 415 V	I _e	Α	250
500 V		A	250
	l _e		
690 V	I _e	Α	250
AC-23A			
Rated operational current switch			
400 V 415 V	I _e	A	250
500 V	l _e	Α	220

Notes			B10 _d values as per EN ISO 13849-1, table C1
Technical safety parameters:			
Tightening torque for terminal screw		Nm	14
Terminal screw			M8 x 20
Stripping length		mm	21
Flat conductor connection with busbars		mm^2	120
Terminal capacities			
690 V	P	kW	132
500 V	P	kW	160
400 V 415 V	P	kW	147
Motor rating AC-23A, 50 - 60 Hz	Р	kW	

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Design verification as per IEC/EN 61439

690 V

Design vermoation as per illo/liv 01400			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	250
Heat dissipation per pole, current-dependent	P _{vid}	W	3.75
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.	· uiss	°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification		J	
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 hormal heat			Meets the product standard's requirements.
and fire due to internal electric effects			weets the product standard 5 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.

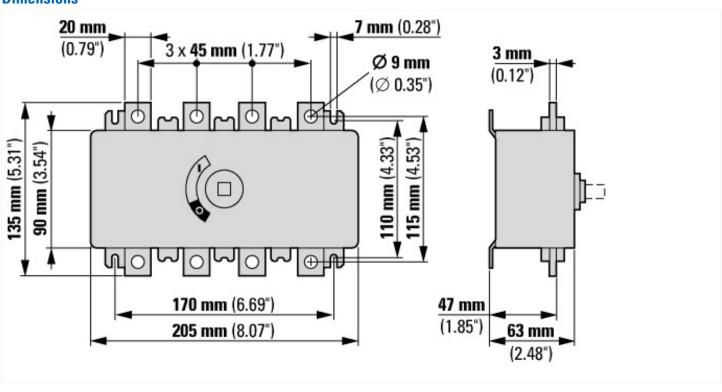
Technical data ETIM 7.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

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 lu	Α	250
Rated permanent current at AC-23, 400 V	Α	250
Rated permanent current at AC-21, 400 V	Α	250
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	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



Assets (links)

Declaration of CE Conformity

00003044

Instruction Leaflets

IL008008ZU2018_05