

**Switch-disconnector, DMV, 1000 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft**

**Part no. DMV-1000N/3**  
**Catalog No. 1814445**

**Delivery program**

Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DMV
Stop Function			optional
			Without rotary handle and drive shaft
<b>Notes</b>			visible contacts
Information about equipment supplied			auxiliary contact fitted by user. including connection materials
Number of poles			3 pole
<b>Auxiliary contacts</b>			
		N/O	0
		N/C	0
Degree of Protection			IP00 IP20 with terminal cover
Design			surface mounting
Contact sequence			
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	425
Rated uninterrupted current	$I_u$	A	1000
Note on rated uninterrupted current $I_u$			Rated uninterrupted current $I_u$ is specified for max. cross-section.

**Technical data**

<b>General</b>			
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	12
Rated insulation voltage	$U_i$	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	$U_e$	V AC	690
Rated uninterrupted current	$I_u$	A	1000
Note on rated uninterrupted current $I_u$			Rated uninterrupted current $I_u$ is specified for max. cross-section.
Short-circuit rating			
fuse			1000/630
Rated conditional short-circuit current	$I_q$	kA	$I_n = 1000: 50$ $I_n = 630: 100$
Breaking current		kA	$I_n = 1000: 70$ $I_n = 630: 65$
max. let-through energy		$kA^2s$	$I_n = 1000: 4200$ $I_n = 630: 3200$
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	36000
Note on rated short-time withstand current $I_{cw}$			Current for a time of 0.3 seconds
Heat dissipation per pole, current-dependent	$P_{vid}$	W	44.75

## Switching capacity

Rated breaking capacity $\cos \varphi$ to IEC 60947-3			
400/415 V		A	6072
500 V		A	4600
690 V		A	3496
Safe isolation to EN 61140			
Current heat loss per contact at $I_e$		W	44.75
Lifespan, mechanical			
	Operations		5000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	$I_e$	A	1000
500 V	$I_e$	A	1000
690 V	$I_e$	A	1000
AC-22A			
Rated operational current switch			
400 V 415 V	$I_e$	A	1000
500 V	$I_e$	A	1000
690 V	$I_e$	A	1000
AC-23A			
Rated operational current switch			
400 V 415 V	$I_e$	A	759
500 V	$I_e$	A	575
690 V	$I_e$	A	437
Motor rating AC-23A, 50 - 60 Hz			
400 V 415 V	P	kW	425
500 V	P	kW	425
690 V	P	kW	425

## Terminal capacities

Flat conductor connection with busbars		$mm^2$	600
Terminal screw			M12 x 35
Tightening torque for terminal screw		Nm	28

## Technical safety parameters:

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

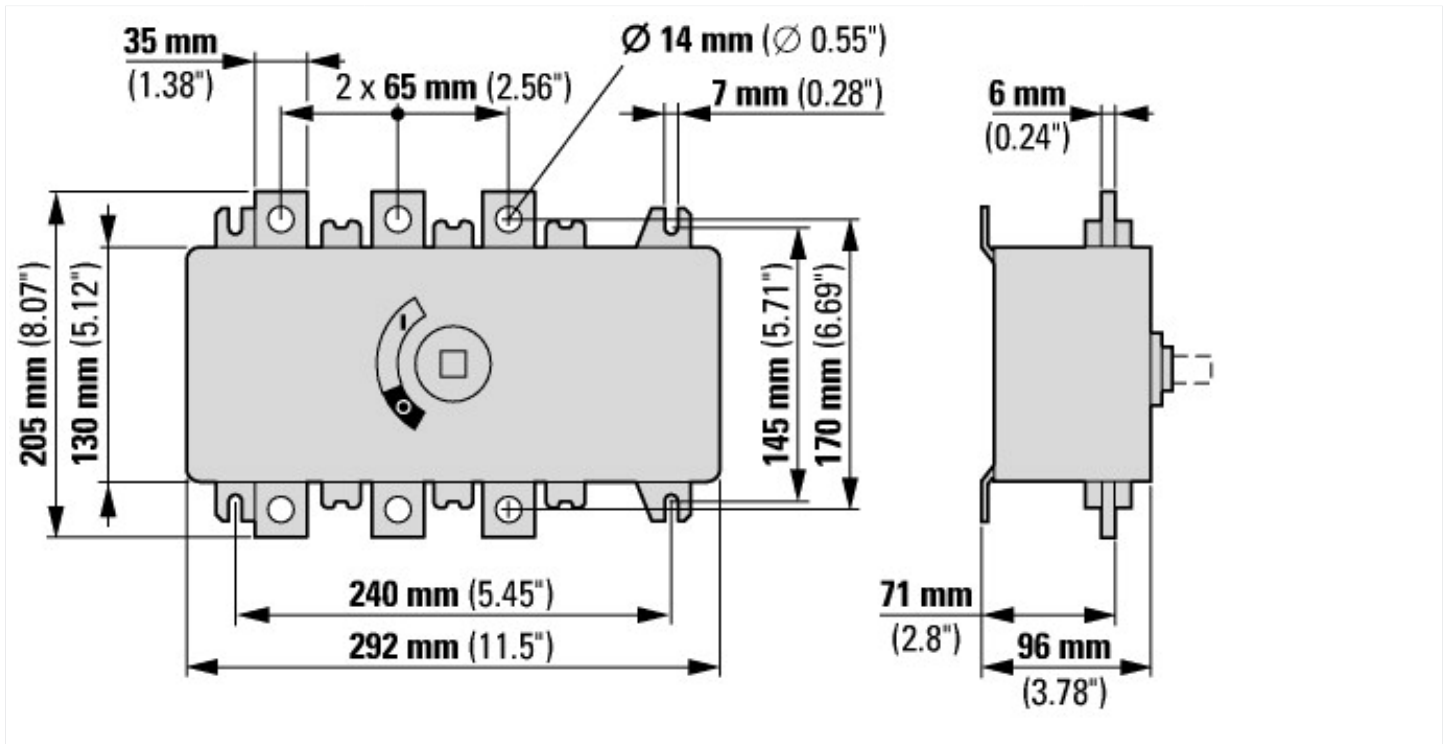
Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	1000
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	44.75
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	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			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
10.11 Short-circuit rating			
10.12 Electromagnetic compatibility			
10.13 Mechanical function			

## 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			No
Version as emergency stop installation			Yes
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage U <sub>e</sub> AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I <sub>u</sub>		A	1000
Rated permanent current at AC-23, 400 V		A	759
Rated permanent current at AC-21, 400 V		A	1000

Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current I <sub>cw</sub>	kA	36
Rated operation power at AC-23, 400 V	kW	425
Switching power at 400 V	kW	375
Conditioned rated short-circuit current I <sub>q</sub>	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 centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		No
Colour control element		Other
Type of control element		Other
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other

## Dimensions



## Additional product information (links)

IL008008Z Switch-disconnectors

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[https://es-assets.eaton.com/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL008008ZU2018\\_05.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL008008ZU2018_05.pdf)