Switch-disconnector, DCM, 63 A, 4 pole, Stop Function optional, Without rotary handle and drive shaft, Rear connection; for front connection - 1314344



Part no. DCM-63/4-SK+FM Catalog No. 1314009

Delivery program			
Product range			Switch-disconnector Main switch maintenance switch
Part group reference			DCM
Stop Function			optional
			Without rotary handle and drive shaft
Notes			Rear connection; for front connection → 1314344
Number of poles			4 pole
Auxiliary contacts			
		N/0	0
<b>7</b>		N/C	0
Degree of Protection			IP20
Design			surface mounting
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	I <sub>u</sub>	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

## **Technical data**

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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			111/3
Rated impulse withstand voltage	$U_{imp}$	kV	6
Rated insulation voltage	U <sub>i</sub>	V	690
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			4 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U <sub>e</sub>	V AC	415
Rated uninterrupted current	I <sub>u</sub>	Α	63
Note on rated uninterrupted current $\boldsymbol{!}_{\boldsymbol{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Short-circuit rating			
fuse			50
Rated conditional short-circuit current	Iq	kA	50
Breaking current		kA	7

max. let-through energy		kA <sup>2</sup> s	12
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	$A_{rms}$	1500
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated short-circuit making capacity	I <sub>cm</sub>	kA <sub>eff</sub>	1.4
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	3.9
Switching capacity			
Rated breaking capacity $\cos \phi$ to IEC 60947-3		Α	
400/415 V		Α	504
Safe isolation to EN 61140			
Current heat loss per contact at I <sub>e</sub>		W	3.9
Lifespan, mechanical	Operations		10000
AC			
AC-21A			
Rated operational current switch			
400 V 415 V	l <sub>e</sub>	Α	63
AC-22A			
Rated operational current switch			
400 V 415 V	l <sub>e</sub>	Α	63
AC-23A			
Rated operational current switch			
400 V 415 V	l <sub>e</sub>	Α	63
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
400 V 415 V	Р	kW	30
Terminal capacities			
Solid		$\text{mm}^2$	2.5 - 16
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	
flexible		mm <sup>2</sup>	1.5 - 25
Stripping length		mm	14
Tightening torque for terminal screw		Nm	2
Technical safety parameters:			
Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1

## Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	3.9
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	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 8.0**

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])

Vorsion as main awtich         %es           Version as ammineance-jestices witch         6         yea           Version as after witch         6         7           Version as after witch         6         7           Version as a mergency step installation         6         7           Version as a mergency step installation         6         7           Version as a mergency step installation         6         7           Number of switches         1         1           Number of switches         2         4         15           Rated operating voltage         4         8         3           Rated operating voltage         4         8         3           Rated operating voltage         4         8         3           Rated permanent current at AC-2,400 V         A         8         3           Rated permanent current at AC-2,400 V         A         8         3           Rated operation power at AC-2,400 V         A         9         4           Switching power at 400 V         A         9         4           Number of policioned rated short-circuit current low         A         8           Number of policioned policioned seat sa normally concetats a change-over contact         A </th <th>[AKF000013])</th> <th></th> <th></th>	[AKF000013])		
Version as selety switch         No           Version as energency stop installation         No           Version as energency stop installation         No           Version as reversing switch         Image: Control of Switches           Max. rated operation voltage Ue AC         V         415           Rated operating voltage         V         415-415           Rated operating voltage         A         63           Rated permanent current at AC-23,400 V         A         63           Rated operation power at AC-3,400 V         A         63           Rated operation power at AC-23,400 V         A         63           Rated operation power at AC-23,400 V         AW         0           Rated operation power at AC-23,400 V         AW         0           Switching power at AC-24,400 V         AW         0           Conditioned rated short-circuit current lq         AW         0           Number of polise         AW         0           Number of awailary contacts as normally closed contact         AW         0           Number of awailary contacts as normally open contact         A         0           Number of awailary contacts as normally open contact         A         0           Woter drive integrated         A         0	Version as main switch		Yes
Version as emergency stop installation         INO           Version as reversing switch         INO           Number of switches         INO           Max. rated operation voltage Ue AC         V         15-115           Rated operation voltage         INO         35-215           Rated permanent current IL         A         63-225           Rated permanent current at AC-23,400 V         A         63-225           Rated operation power at AC-3,400 V         AW         0           Conditioned rated short-circuit current Iq         AW         0           Conditioned rated short-circuit current Iq         A         0           Number of poles         A         0           Number of auxiliary contacts as normally closed contact         A         0           Motor drive optional         A         0           Motor drive integrated         A         0           Motor drive integrated         A         0           Suitable for fior mounti	Version as maintenance-/service switch		Yes
Vorsion as roversing switch         Image: Contraction of Switches         Image: Con	Version as safety switch		No
Number of switches         1           Max. rated operation voltage Ue AC         V         415           Rated operation voltage         V         415 - 415           Rated permanent current un AC-23, 400 V         A         32           Rated permanent current at AC-23, 400 V         A         33           Rated operation power at AC-3, 400 V         A         33           Rated operation power at AC-3, 400 V         AW         30           Rated operation power at AC-3, 400 V         AW         35           Rated operation power at AC-3, 400 V         AW         35           Rated operation power at AC-3, 400 V         AW         30           Conditioned rated short-circuit current low         AW         30           Validation power at AC-3, 400 V         AW         30           Conditioned rated short-circuit current low         AW         30           Number of polos         AW         30           Number of auxiliary contacts as normally open contact         A         40           Number of auxiliary contacts as change-over contact         No         A           Number of number of auxiliary contacts as change-over contact         No         No           Number of number of auxiliary contacts as change-over contact         No         No <td>Version as emergency stop installation</td> <td></td> <td>No</td>	Version as emergency stop installation		No
Max. rated operation voltage Ue AC         V         415-415           Rated operating voltage         V         415-415           Rated permanent current In         A         63           Rated permanent current at AC-23,400 V         A         63           Rated operation power at AC-3,400 V         W         0           Rated operation power at AC-3,400 V         W         0           Rated short-time withstand current lew         W         0           Switching power at 400 V         W         0           Number of poles         W         0           Number of poles         W         0           Number of auxiliary contacts as normally closed contact         N         N           Number of auxiliary contacts as change-over contact         N         N           Number of auxiliary contacts as change-ove	Version as reversing switch		No
Rated operating voltage         V         415-415           Rated permanent current at AC-23, 400 V         A         63           Rated permanent current at AC-23, 400 V         A         63           Rated permanent current at AC-24, 400 V         A         63           Rated operation power at AC-3, 400 V         A         63           Rated short-ine withstand current low         A         5           Rated operation power at AC-23, 400 V         AW         63           Switching power at 400 V         AW         63           Switching power at 400 V         AW         60           Conditioned rated short-circuit current lq         AW         6           Number of poles         A         6         6           Number of poles         AW         6         6           Number of auxiliary contacts as normally open contact         A         6           Number of auxiliary contacts as harge-over contact         A         7           Motor drive pitional         A         7         8           Motor drive pitional         A         8         8           Motor drive pitional         B         9         9           Suitable for four mounting         A         9         9	Number of switches		1
Rated permanent current at AC-23,400 V         A         63           Rated operation power at AC-23,400 V         KW         55           Rated operation power at AC-23,400 V         KW         63           Switching power at 400 V         KW         63           Conditioned rated short-circuit current Iq         KW         0           Number of poles         KW         0           Number of auxiliary contacts as normally closed contact         W         0           Number of auxiliary contacts as normally open contact         W         0           Motor drive optional         W         0           Motor drive optional         W         0           Motor drive integrated         W         0           Voltage ralease optional         W         0           Device onstruction         W         0           Suitable for front mounting         W         0           Suitable for front mounting 4-ble         W         0           Suitable for front mounting centre         W         0 </td <td>Max. rated operation voltage Ue AC</td> <td>V</td> <td>415</td>	Max. rated operation voltage Ue AC	V	415
Rated permanent current at AC-23, 400 V         A         63           Rated permanent current at AC-21, 400 V         A         63           Rated operation power at AC-3, 400 V         C         64           Rated short-line withstand current low         C         kW         55           Rated short-line withstand current low         C         kW         63           Rated peration power at AC-23, 400 V         C         64           Switching power at 400 V         C         64           Conditioned rated short-circuit current lq         kW         0           Number of poles         4         4           Number of auxiliary contacts as normally closed contact         C         0           Number of auxiliary contacts as normally open contact         C         0           Motor drive optional         C         0           Motor drive optional         C         0           Motor drive optional         C         0           Voltage release optional         C         0           Suitable for floor mounting         C         0           Suitable for from mounting 4-bole         C         0           Suitable for from mounting entre         C         0           Suitable for intermediate mounting	Rated operating voltage	V	415 - 415
Rated permanent current at AC-21, 400 V         A         83           Rated operation power at AC-3, 400 V         kW         0           Rated short-time withstand current low         kW         15           Rated operation power at AC-23, 400 V         kW         3           Switching power at 400 V         kW         0           Conditioned rated short-circuit current lq         kW         0           Number of poles         4         4           Number of auxiliary contacts as normally closed contact         0         0           Number of auxiliary contacts as normally open contact         0         0           Number of auxiliary contacts as normally open contact         0         0           Motor drive optional         No         No           Motor drive integrated         No         No           Voltage relasse optional         No         No           Device construction         No         No           Suitable for from mounting         Yes         No           Suitable for from mounting 4-hole         No         No           Suitable for from mounting entre         No         No           Suitable for intermediate mounting         No         No           Suitable for intermediate mounting	Rated permanent current lu	Α	63
Rated operation power at AC-3,400 V         kW         1.5           Rated operation power at AC-23,400 V         kW         63           Switching power at 400 V         kW         0           Conditioned rated short-circuit current Iq         kA         0           Number of poles         kA         0           Number of auxiliary contacts as normally losed contact         2         4           Number of auxiliary contacts as normally open contact         0         0           Mumber of auxiliary contacts as change-over contact         0         0           Motor drive optional         0         0           Motor drive integrated         0         0           Voltage release optional         No         0           Device construction         9         0           Suitable for front mounting 4-hole         9         0           Suitable for front mounting 4-hole         9         0           Suitable for front mounting eartre         9         No           Suitable for front mounting eartre         9         No           Suitable for intermediate mounting         9         No           Suitable for intermediate mounting         9         No           Colour control element         9         No	Rated permanent current at AC-23, 400 V	Α	63
Rated short-time withstand current Icw Rated operation power at AC-23, 400 V  Withing power at 400 V  Conditioned rated short-circuit current Iq  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as shornge-over contact  Motor drive eptional  Motor drive integrated  Voltage release optional  Device construction  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Daggee of protection (IP), front side)	Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-23, 400 V  Switching power at 400 V  Conditioned rated short-circuit current Iq  Number of poles  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as shange-over contact  Motor drive integrated  Notor drive integrated  Notor drive integrated  Notor drive integrated  Notor forton mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Degree of protection (IP), front side	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of invivi integrated Notor drive integrated Notor drive integrated Notor drive integrated Notinge release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side	Rated short-time withstand current lcw	kA	1.5
Conditioned rated short-circuit current Iq  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for floor mounting 4-hole  Suitable for front mounting e-ntre  Suitable for floot mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Degree of protection (IP), front side	Rated operation power at AC-23, 400 V	kW	63
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated built-in technique Notor drive integrated built-in technique Notor delement Notor drive integrated built-in technique Notor dr	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Notor drive integrated  No  Notor grive optional  No  No  No  No  Device construction  Suitable for floor mounting  Suitable for floor mounting 4-hole  Suitable for front mounting centre  Suitable for first mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Degree of protection (IP), front side	Conditioned rated short-circuit current Iq	kA	0
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for firont mounting centre  Suitable for firont mounting centre  Suitable for fort mounting centre  Suitable for intermediate mounting  Colour control element  Type of control element  No  Other  Type of electrical connection of main circuit  Degree of protection (IP), front side	Number of poles		4
Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for floot mounting centre  Suitable for fortn mounting centre  Suitable for font mounting centre  Suitable for floot mounting  Suitable for floot mounting centre  Suitable for floot mounting centre  Suitable for floot mounting centre  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Degree of protection (IP), front side  Degree of protection (IP), front side	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated Voltage release optional No Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side  No	Number of auxiliary contacts as normally open contact		0
Motor drive integrated       No         Voltage release optional       No         Device construction       Built-in device fixed built-in technique         Suitable for floor 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	Number of auxiliary contacts as change-over contact		0
Voltage release optional       No         Device construction       Built-in device fixed built-in technique         Suitable for floor 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	Motor drive optional		No
Device construction  Built-in device fixed built-in technique  Yes  Suitable for floor mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Built-in device fixed built-in technique  Yes  No  No  Other  Other  Other  Screw connection  IP20	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side  Yes No Other Other Other Screw connection IP20	Voltage release optional		No
Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No  No  Screw connection  IP20	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centre  No Suitable for distribution board installation  Yes Suitable for intermediate mounting No Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No Interlockable  No IP20	Suitable for floor mounting		Yes
Suitable for distribution board installation  Yes  Suitable for intermediate mounting  No  Colour control element  Type of control element  Other  Interlockable  No  Type of electrical connection of main circuit  Degree of protection (IP), front side  Yes  No  Other  Other  IP20	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting  No Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No Interlockable  IP20	Suitable for front mounting centre		No
Colour control element  Type of control element  Other  Interlockable  No  Type of electrical connection of main circuit  Degree of protection (IP), front side  Other  IP20	Suitable for distribution board installation		Yes
Type of control element  Interlockable No  Type of electrical connection of main circuit  Degree of protection (IP), front side  Other  No  Screw connection  IP20	Suitable for intermediate mounting		No
Interlockable No Type of electrical connection of main circuit Screw connection  Degree of protection (IP), front side IP20	Colour control element		Other
Type of electrical connection of main circuit  Degree of protection (IP), front side  Screw connection  IP20	Type of control element		Other
Degree of protection (IP), front side	Interlockable		No
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) Other	Degree of protection (IP), front side		IP20
	Degree of protection (NEMA)		Other