

Part no.

Auxiliary contact, 4 N/C, surface mounting, screw connection

04DILE

			8
Power	ring Busi	ness V	Vorldwide

	Article no. Catalog No.	010256 XTMCXFA04	4		
Delivery programme	-				
Product range					Accessories
Accessories					Auxiliary contact modules
Description					with interlocked opposing contacts
Function					for standard applications
Pole					4 pole
Rated operational current					
AC-15					
220 V 230 V 240 V			le	А	4
380 V 400 V 415 V			le	А	2
Contacts					
N/C = Normally closed					4 NC
Mounting type					Front fixing
Contact sequence					$-\begin{array}{c} \mathbf{L}^{51} \mathbf{L}^{61} \mathbf{L}^{71} \mathbf{L}^{81} \\ \mathbf{L}^{7} \mathbf{L}^{7} \mathbf{L}^{7} \mathbf{L}^{71} \mathbf{L}^{71}$
For use with					DILEM-10(-G)() DILEM-01(-G)() DILER40(-G) DILER31(-G) DILER22 DILEEM-10(-G)() DILEEM-01(-G)() DILEEM12-10(-G)() DILEM12-01(-G)()
Instructions					No interlocked opposing mechanism in NO early-makes and NC late-breaks. Auxiliary contact modules with positive acting contacts
Code number and version of com	bination				
Distinctive number					44 E
					35
					26

Approvals

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified

Auxiliary contacts

Auxinury contacts			
flexible with ferrule			Yes
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	600
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	300
between the auxiliary contacts		V AC	300
Rated operational current		А	
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			

Conv. thermal current	I _{th}	А	10
AC-15			
220 V 230 V 240 V	le	A	4
380 V 400 V 415 V	l _e	А	2
500 V	le	А	1.5
DC current			
DC-13 L/R - 15 ms			
Contacts in series:		Α	
1	24 V	Α	2.5
2	60 V	Α	2.5
3	110 V	Α	1.5
3	220 V	Α	0.5
Control circuit reliability (at U_e = 24 V DC, U_{min} = 17 V, I $_{min}$ = 5.4 mA)	Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations
Component lifespan at $U_e = 240 \text{ V}$			
AC-15	Operations	x 10 ⁶	0.2
DC			
Footnote			Switch-on and switch-off conditions based on DC-13, time constant as specified
L/R = 50 ms: 2 contacts in series at I_{e} = 0.5 A	Operations	x 10 ⁶	0.15
Short-circuit rating without welding			
Maximum overcurrent protective device			
Short-circuit protection only			PKZM0-4
Short-circuit protection maximum fuse			
500 V		A gG/gL	6
500 V		A fast	10
Current heat loss at I _{th}			
Per contact		W	0.2

Data for design verification according to IEC/EN 61439

Rated operational current for specified heat dissipationInA10Heat dissipation per pole, current-dependentPvidW0.2Equipment heat dissipation, current-dependentPvidW0Static heat dissipation, non-current-dependentPvsW0Heat dissipation capacityPdissW0				
Heat dissipation per pole, current-dependentPoleWeilQEquipment heat dissipation, current-dependentPoleWeilQStatic heat dissipation, on-current-dependentPoleWeilQHeat dissipation capacityPolesWeilQEUCN 61439 design verificationPolesWeilQ10.2.5 trength of materials and partsMeisMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2.2 Verification of resistance of insulating materials to normal headMeets the product standard's requirements.10.2.3.2.3.Verification of resistance of insulating materials to abnormal headMeets the product standard's requirements.10.2.3.2.3.Verification of resistance of insulating materials to abnormal headMeets the product standard's requirements.10.2.3.2.Verification of resistance of insulating materials to abnormal headMeets the product standard's requirements.10.2.3.2.Verification of resistance of insulating materials to abnormal headMeets the product standard's requirements.10.2.3.2.Verification of resistance of insulating materials to abnormal headMeets the product standard's requirements.10.2.3.2.Verification of ASSEMBLIESMeets the product standard's requirements.10.2.4.Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.3.Degree of protection of ASSEMBLIESMeets the product standard's requirements.10.4.Clearances and creepage distancesMeets the product standard's requirements.10.5.Protection	Technical data for design verification			
Equipment heat dissipation, current-dependent Poid We Static heat dissipation, non-current-dependent Poids We 0 Heat dissipation, non-current-dependent Poids We 0 ID2.5 krongth of materials and parts We 0 0 102.2 Strongth of materials and parts West the product standard's requirements. 0 102.2 Strongth of materials and parts West the product standard's requirements. 0 102.2 Strongth of nesistance of insulating materials to normal heat and fire due to internal electric effects Meets the product standard's requirements. 102.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Neets the product standard's requirements. 102.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.2 Inscriptions Does not apply, since the entire switchgear needs to be evaluated. 102.3 Lociptions of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 102.3 Inscriptions Does not apply, since the entire switchgear needs to be evaluated. 102.3 Portection against electric ishock Does not apply, since the entire switchgear needs to be evaluated. 103.0 ergre o	Rated operational current for specified heat dissipation	I _n	А	10
Static heat dissipation, non-current-dependent Pease We Beat dissipation capacity Pease We	Heat dissipation per pole, current-dependent	P _{vid}	W	0.2
Heat dissipation capacity Paiss Weak Heat dissipation capacity Paiss Weak 102.2 Corrosion resistance Meats the product standard's requirements. 102.2 Corrosion resistance of insulating materials to normal heat Meats the product standard's requirements. 102.3 X Verification of resistance of insulating materials to abnormal heat Meats the product standard's requirements. 102.3 X Verification of resistance of insulating materials to abnormal heat Meats the product standard's requirements. 102.3 X Verification of resistance of insulating materials to abnormal heat Meats the product standard's requirements. 102.3 X Verification of resistance of insulating materials to abnormal heat Meats the product standard's requirements. 102.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 103.0 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Does not apply, sinc	Equipment heat dissipation, current-dependent	P _{vid}	W	0
EC/EN 61439 design verificationMets10.2 Strength of materials and partsMets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to abnormal heatMets the product standard's requirements.10.2.3.3 Verification of resistance of insulating materials to abnormal heatMets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.5 LoftingDoes not apply, since the entire switchgear needs to be evaluated.10.3.Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsStet panel builder's responsibility.10.8 Connections for external conductorsStet panel builder's responsibility.10.9 Insulation propertiesStet panel builder's responsibility.10.9 Prover/requency electric strengthIts the panel builder's responsibility.	Static heat dissipation, non-current-dependent	P _{vs}	W	0
10.2 Strength of materials and partsMeets the product standard's requirements.10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.3.0 Egree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electric al circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9 Log Power-frequency electric strengthIs the panel builder's responsibility.	Heat dissipation capacity	P _{diss}	W	0
10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDees not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDees not apply, since the entire switchgear needs to be evaluated.10.3.0 Begree of protection of ASSEMBLIESDees not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesDees not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDees not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDees not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsEtem panel builder's responsibility.10.8 Connections for external conductorsEtem panel builder's responsibility.10.9 Insulation propertiesIth panel builder's responsibility.10.9 Dever-frequency electric strengthEtem panel builder's responsibility.	IEC/EN 61439 design verification			
10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.3.0 Egree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDoes not apply, since the entire switchgear needs to be evaluated.10.8 Connections for external conductorsEvaluation10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility. <td>10.2 Strength of materials and parts</td> <td></td> <td></td> <td></td>	10.2 Strength of materials and parts			
10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationDoes not apply, since the entire switchgear needs to be evaluated.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.3.7 InscriptionsMeets the product standard's requirements.10.4 Clearances and creepage distancesDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsStep panel builder's responsibility.10.8 Connections for external conductorsStep panel builder's responsibility.10.9 Insulation propertiesIts the panel builder's responsibility.10.9.2 Power-frequency electric strengthIts the panel builder's responsibility.	10.2.2 Corrosion resistance			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 effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockMeets the product standard's requirements.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.	10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
and fire due to internal electric effectsA fire due to internal electric effects10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.	10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsMeets the product standard's requirements.10.7 Internal electrical circuits and connectionsDoes not apply, since the entire switchgear needs to be evaluated.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthImage: Step Step Step Step Step Step Step Step				Meets the product standard's requirements.
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 Meets the product standard's requirements. 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 Example of the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9 Insulation properties Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockMeets the product standard's requirements.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsMeets the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.1 Power-frequency electric strengthIs the panel builder's responsibility.	10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
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. 10.9.1 Power-frequency electric strength Is the panel builder's responsibility.	10.2.6 Mechanical impact			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 Image: Connections for external conductors 10.9 Insulation properties Image: Connection strength 10.9.2 Power-frequency electric strength Image: Connection strength	10.2.7 Inscriptions			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 Image: Connection of switching devices and components 10.8 Connections for external conductors Image: Connection of switching devices and components 10.9 Insulation properties Image: Connection of switching devices are provided on the panel builder's responsibility. 10.9.2 Power-frequency electric strength Image: Connection of switching devices and components	10.3 Degree of protection of ASSEMBLIES			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 Internal electric strength	10.4 Clearances and creepage distances			Meets the product standard's requirements.
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 Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors Is the panel builder's responsibility. 10.9 Insulation properties Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9 Insulation properties Image: Constraint of the panel builder's responsibility. 10.9.2 Power-frequency electric strength Image: Constraint of the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.8 Connections for external conductors			Is the panel builder's responsibility.
	10.9 Insulation properties			
10.9.3 Impulse withstand voltage	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.

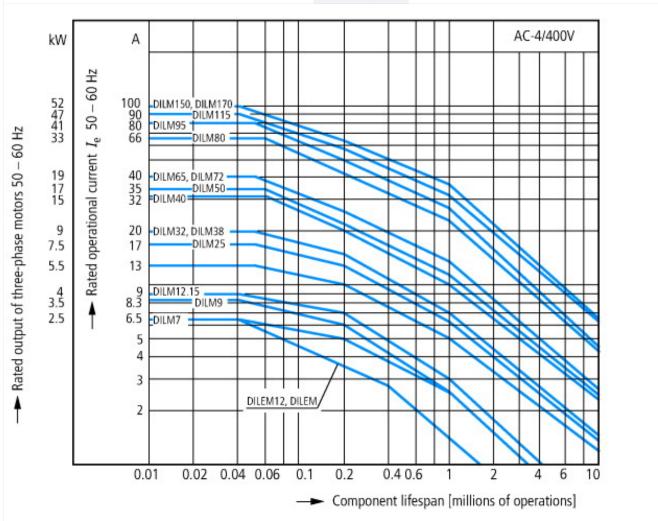
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. 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.

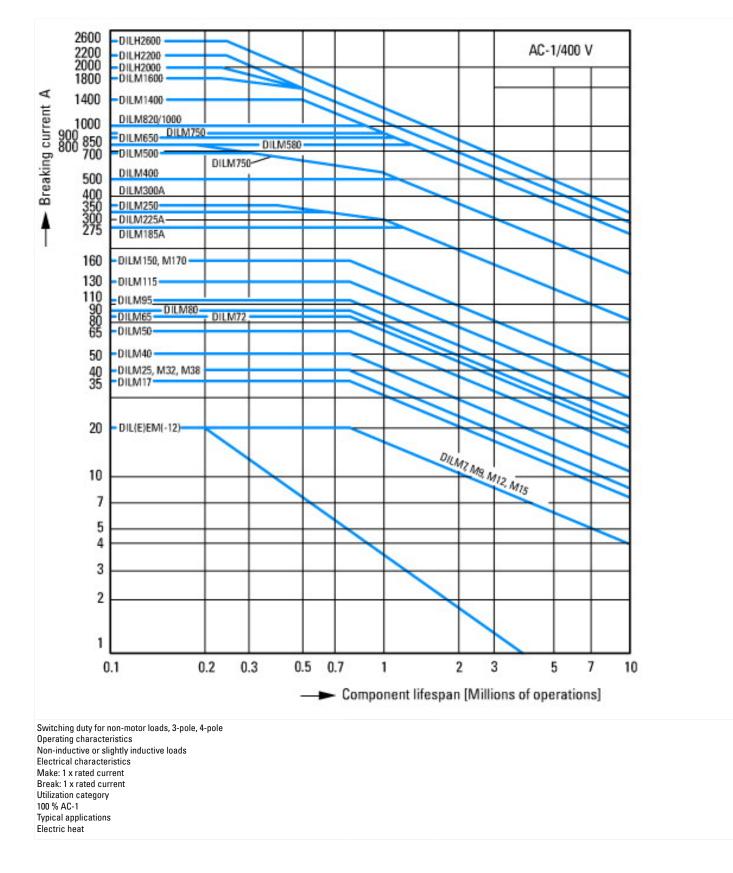
Technical data ETIM 5.0

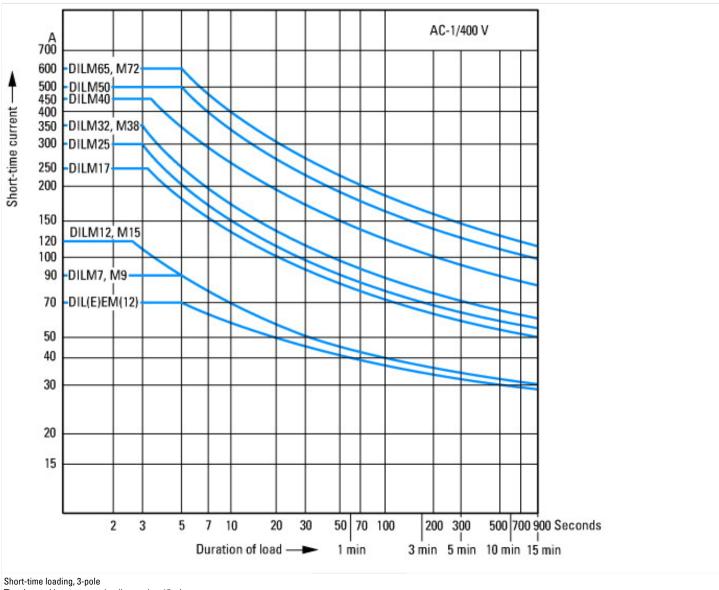
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)		
Electric engineering, automation, process control engineering / Low-voltage switc [AKN342009])	h technology /	Componen	t for low-voltage switching technology / Auxiliary switch block (ecl@ss8-27-37-13-02
Number of contacts as change-over contact			0
Number of contacts as normally open contact			0
Number of contacts as normally closed contact			4
Rated operation current le at AC-15, 230 V		А	4
Type of electric connection			Screw connection
Mounting method			Front fastening

Characteristics

Characteristic curves

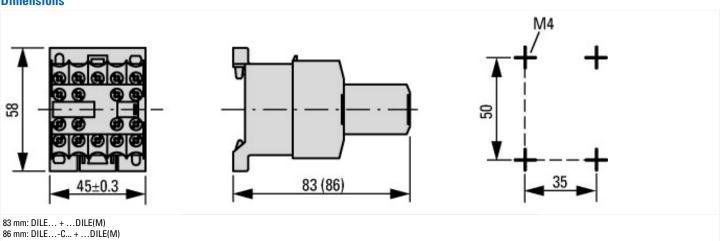






Time interval between two loading cycles: 15 minutes

Dimensions



Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2010_10.pdf
UL/CSA: Approved rating data	http://de.ecat.moeller.net/flip-cat/?edition=HPLTE&startpage=5.84