Contactor relay, 24 V 50/60 Hz, 4 N/O, Push in terminals, AC operation



DILA-40(24V50/60HZ)-PI Part no. 199206

Catalog No.

Alternate Catalog XTREPI10B40T

Delivery program

Application Description Descri	zomon, program			
Description Connection technique AC-15 220 V 230 V 240 V	Product range			DILA relays
Connection technique Rated operational current AC-15 220 V 230 V 240 V 1e A 4 380 V 400 V 415 V Contacts N/O = Normally open Contact sequence Code number and version of combination Distinctive number Can be combined with auxiliary contact module Actuating voltage Voltage AC/DC Connection to SmartWire-DT Instructions Push in terminals A 4 4 4 4 4 4 4 4 4 4 4 4 4	Application			Contactor relays
AC-15 220 V 230 V 240 V 1e A 4 380 V 400 V 415 V Contacts N/0 = Normally open Contact sequence Code number and version of combination Distinctive number Can be combined with auxiliary contact module Actuating voltage Contact sequence Connection to SmartWire-DT constact sequence Contact sequence Contact sequence Contact sequence ACCOMBINITY ACTUAL STATE	Description			Basic devices with positive operation contacts
AC-15 220 V 230 V 240 V	Connection technique			Push in terminals
Ie	Rated operational current			
380 V 400 V 415 V Contacts N/O = Normally open Code number and version of combination Distinctive number Combined with auxiliary contact module Actuating voltage Voltage AC/DC Connection to SmartWire-DT Instructions Actual in SmartWire-DT Instructions Actual in SmartWire DI Instruction Instruc	AC-15			
Contacts N/O = Normally open Contact sequence Code number and version of combination Distinctive number Can be combined with auxiliary contact module Actuating voltage Voltage AC/DC Connection to SmartWire-DT no nostructions A N/O 4 OE 5 DILA-XHI(V)PI 6 Actuating voltage 7 Of tage AC/DC 6 Contact numbers to EN 50011	220 V 230 V 240 V	I _e	Α	4
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Contact sequence Code number and version of combination Distinctive number Actuating voltage Actuating voltage Actuating to SmartWire-DT no nostructions Contact sequence 40E DILA-XHI(V)PI 24 V 50/60 Hz AC operation no Contact numbers to EN 50011	Contacts			
Distinctive number Distinctive number 40E Can be combined with auxiliary contact module Actuating voltage Voltage AC/DC Connection to SmartWire-DT no notinetructions Actual voltage AC/DC Contact numbers to EN 50011	N/O = Normally open			4 N/O
Distinctive number Can be combined with auxiliary contact module Actuating voltage Actuating voltage Actuating voltage Actuating voltage Actuation Connection to SmartWire-DT no notact numbers to EN 50011	Contact sequence			
Can be combined with auxiliary contact module Actuating voltage Actu	Code number and version of combination			
Actuating voltage 24 V 50/60 Hz /oltage AC/DC AC operation Connection to SmartWire-DT no nstructions Contact numbers to EN 50011	Distinctive number			40E
AC operation Connection to SmartWire-DT no Contact numbers to EN 50011	Can be combined with auxiliary contact module			DILA-XHI(V)PI
Connection to SmartWire-DT no nstructions Contact numbers to EN 50011	Actuating voltage			24 V 50/60 Hz
nstructions Contact numbers to EN 50011	Voltage AC/DC			AC operation
	Connection to SmartWire-DT			no
	Instructions			

Technical data

General			
Standards			IEC/EN 60947, EN 60947-5-1, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	20
Maximum operating frequency	Operations/h		9000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Ambient temperature, storage		°C	- 40 - 80
Mounting position			
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Basic unit with auxiliary contact module		g	
N/O contact		g	7
N/C contact		g	5
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000

Weight			
AC operated		kg	0.23
Terminal capacities		mm ²	
Push-in terminals			
Solid		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible with ferrules		mm ²	1 x (0,5 - 1,5) 2 x (0,5 - 1,5)
flexible with ultrasonic welded busbar end		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
flexible with uninsulated wire end ferrule		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 2,5)
Solid or stranded		AWG	20 - 14
Stripping length		mm	10
Standard screwdriver			3.0 x 0.5
Contacts			
Positive operating contacts to ZH 1/457, including auxiliary contact module			yes
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts		V AC	400
Rated operational current		Α	
Conventional free air thermal current, 1 pole			
Open			
at 60 °C	$I_{th} = I_e$	Α	16
AC-15			
220 V 230 V 240 V	I _e	Α	4
380 V 400 V 415 V	I _e	Α	4
500 V	I _e	Α	1.5
DC current			
Notes			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC L/R ≦ 15 ms			
Contacts in series:		Α	
1	24 V	Α	10
1	60 V	Α	6
2	60 V	Α	10
1	110 V	Α	3
3	110 V	Α	6
1	220 V	Α	1
3	220 V	Α	5
DC L/R ≦ 50 ms			
Contacts in series:		Α	
3	24 V	Α	4
3	60 V	Α	4
3	110 V	Α	2
3	220 V	Α	1
Control circuit reliability	Failure rate	λ	$<10^{-8}$, $<$ one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
Short-circuit rating without welding			
Maximum overcurrent protective device			
220 V 230 V 240 V		PKZM0	4
380 V 400 V 415 V		PKZM0	

Short-circuit protection maximum fuse			
500 V		A gG/gL	10
Current heat loss at I _{th}			
AC operated		W	0.53
Magnet systems			
Voltage tolerance			
AC operated			
Dual-frequency coil 50/60 Hz	Pick-up	$x U_{c}$	0.8 - 1.1
Power consumption			
AC operation			
Dual-frequency coil 50/60 Hz at 60 Hz	Pick-up	VA	27 25
Dual-frequency coil 50/60 Hz	Hold	VA	4.2 3.3

W

% DF

ms

1.4

100

15 - 21

9 - 18

Sealing

Rating data for approved types

AC operated closing delay

Dual-frequency coil 50/60 Hz

Changeover time at 100 % U_S (recommended value)

AC operated N/O contact opening delay

duty factor

	A600
	P300
V	600
Α	15
V	250
Α	1
	A V

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	60

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Contactor relay (EC000196)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014])			
Rated control supply voltage Us at AC 50HZ	V	24 - 24	
Rated control supply voltage Us at AC 60HZ	V	24 - 24	
Rated control supply voltage Us at DC	V	0 - 0	
Voltage type for actuating		AC	
Rated operation current le, 400 V	Α	4	
Connection type auxiliary circuit		Spring clamp connection	
Mounting method		DIN-rail/screw	
Interface		No	
Number of auxiliary contacts as normally closed contact		0	
Number of auxiliary contacts as normally open contact		4	
Number of auxiliary contacts as normally closed contact, delayed switching		0	
Number of auxiliary contacts as normally open contact, leading		0	
Number of auxiliary contacts as change-over contact		0	
With LED indication		No	
Suitable for manual operation		No	

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
Specially designed for North America	No

Dimensions