Juit 4405 DILLI 8 (2 30 V50HZ, Z40								
Overview Specifi	cations Resources							
	DELIVERY PROGRAM							
Technical data								
Technical data ETIM 7.0	AC-1: Non-inductive or slightly inductive loads,							
Approvals	Rated operational current							
Dimensions	220 V 230 V [le]							
	AC-5b							

220 V 230 V [l_e] 21 A

AC-5b 380 V 400 V [le] 21 A

AC-1

Conventional free air thermal current, 3 pole, 50 -60 Hz Open at 40 °C [l_{th} =l_e] 40 A

Contact sequence $A_1 I_1 I_3 I_5^5$ $A_2 I_2 I_4 I_6^6$

Actuating voltage 230 V 50 Hz, 240 V 60 Hz

Note

Switchgear for lighting systems

	DIL	L12	L18	L20	M7	M9	M12	M17	M25	MB2	M40	M50
Permissible compensation capacitance	Omax [mF]	470	470	470	47	80	100	220	330	470	470	500
Filament lamp	le [A]	14	21	27	6	7.5	10	14	21	27	33	42
Mercury blended lamps	le [A]	12	16	23	5	6.5	8.5	12	16	23	30	38
Fluorescent lamps, conventional - reactor – starter – connection	le [A]	20	26	35	9	10	15	20	26	35	41	45
Fluorescent lamps, conventional - reactor – starter – connection	le [A]	20	26	35	5.5	8	13	15	22.5	29	36	47
Fluorescent lamps, duo circuit (series compensated)	le [A]	12	18	20	5	6.5	8.5	12	17.5	22.5	28	35

electronic upstream devices and LED lamps	le [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
High-pressure mercury-arc lamps	le [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
Metal-halide lamps	le [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
Low- pressure sodiumlamps	le [A]	7.5	10	12	3	4	6	7.5	10	12	15	22
	DIL	M65	M80	M95	M115	M150	M185A	M225A	M250A	MBOOA	M400A	M500A
Permissible compensation capacitance	Omax [mF]	500	550	620	830	970	2055	2300	2600	3000	3250	3500
Filament lamp	le [A]	55	67	79	95	125	153	187	208	349	332	415
Mercury blended lamps	le [A]	45	65	67	80	110	123	150	167	200	266	332
Fluorescent lamps, conventional - reactor – starter – connection	le [A]	55	95	100	125	145	207	237	263	300	375	525
Fluorescent lamps, conventional - reactor – starter – connection	le [A]	59	71	95	100	138	186	213	236	270	338	473
Fluorescent lamps, duo circuit (series compensated)	le [A]	45.5	56	66.5	80.5	105	130	158	175	210	280	350
electronic upstream devices and LED lamps	le [A]	36	55	60	80	95	138	158	175	200	250	350
High-pressure mercury-arc lamps	le [A]	36	55	60	80	95	138	158	175	200	250	350
Metal-halide lamps	le [A]	36	55	60	80	95	138	158	175	200	250	350
Low- pressure sodiumlamps	le [A]	25	35	40	50	70	100	11	123	140	175	245

In compensated lamps, the sum of the capacitances must not exceed the contactors' max. permissible capacitor load (Omax)! The values in the table are for each contact in the contactors.

TECHNICAL DATA

General

Standards IEC/EN 60947, VDE 0660, UL, CSA

Lifespan, mechanical AC operated [Operations] 1×10^{6}

Operating frequency, mechanical AC operated [Operations/h] 60

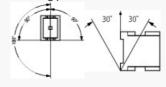
Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Open -25 - +60 °C

Ambient temperature Enclosed - 25 - 40 °C

Ambient temperature Storage - 40 - 80 °C

Mounting position



Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms Mechanical shock resistance 6.9 g

Degree of Protection IP00

Altitude Max. 2000 m

Weight AC operated 0.42 kg

Main conducting paths

Rated impulse withstand voltage $[U_{\text{imp}}]$ 8000 V AC

Overvoltage category/pollution degree III/3

Rated insulation voltage [U] 690 V AC

Rated operational voltage [U_e] 690 V AC

Making capacity 350 A

Breaking capacity [380 \dots 400 V] 250 A

Lifespan, electrical [Operations] 10000

Short-circuit protection maximumfuse 400 V [gG/gL 500 V] 100 A

AC

AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 -60 Hz Open at 40 °C [I_{th} =I_e] 40 A

AC-1

Rated operational current Conventional free air thermal current, 3 pole, 50 -60 Hz Open at 60 °C [I_{th}=I_e] 35 A

AC-5a operation 220 V 230 V [l_e] 18 A

AC-5a operation 380 V 400 V [l_e] 18 A

AC-5b operation 220 V 230 V [le] 21 A

AC-5b operation 380 V 400 V [le] 21 A

AC-5b operation 380 V 400 V [le] 21 A

Electric lamps Filament bulbs 21 A

Bectric lamps Mercury blended lamps 16 A

Electric lamps Fluorescent lamp load Conventional reactor starter circuit 26 A Electric lamps Fluorescent lamp load Duo circuit 26 A

Electric lamps Electronic upstream devices 18 A

Electric lamps High-pressure mercury vapour lamps 18 A

Eectric lamps Metal-halide lamps 18 A

Electric lamps High-pressure sodium lamps 18 A

Electric lamps Low-pressure sodium lamps 10 A

Electric lamps Maximum permissible compensation capacitance 470 μF

Current heat loss

Ourrent heat loss at Ie to AC-5b/400 V 3 W

Impedance per pole 2.65 m Ω

Magnet systems

Voltage tolerance AC operated [Rck-up] Mn. pick-up voltage, AC operated 0.12 x U $_{\rm C}$

Voltage tolerance AC operated [Pick-up] Rick-up voltage AC operated, max. 1.5 x U $_{\rm c}$

Voltage tolerance Drop-out voltage AC operated [Drop-out] Drop-out voltage, AC-operated, min. $0.3 \times U_c$

Power consumption of the coil in a cold state and 1.0 x U_{S} Dual-voltage coil 50 Hz [Pick-up] 52 VA

Power consumption of the coil in a cold state and 1.0 x $U_{\!S}$ Dual-voltage coil 50 Hz [Sealing] 7.1 VA

Power consumption of the coil in a cold state and 1.0 x $U_{\!S}$ Dual-voltage coil 50 Hz [Sealing] 2.1 W

Power consumption of the coil in a cold state and 1.0 x $U_{\!S}$ Dual-voltage coil 60 Hz [Rck-up] 67 VA

Pow er consumption of the coil in a cold state and 1.0 x U_{S} Dual-voltage coil 60 Hz [Sealing] 8.7 VA

Power consumption of the coil in a cold state and 1.0 x $U_{\!S}$ Dual-voltage coil 60 Hz [Sealing] 2.1 W

Duty factor 100 % DF

Operating times Oosing delay Switching times of main contacts AC operated Oosing delay, min. 16 ms

Operating times Closing delay Switching times of main contacts AC operated Closing delay, max. 22 ms

Operating times Opening delay Switching times of main contacts AC operated Opening delay, min. 8 ms

Operating times Opening delay Switching times of main contacts AC operated Opening delay, max. 14 ms

Additional technical data

like the contactar [DIL] M25

Rating data for approved types

Switching capacity General use 35 A

Short Circuit Current Rating Basic Rating SCOR 5 kA

Short Orcuit Ourrent Rating Basic Rating max. Fuse 125 A

Short Orcuit Ourrent Rating Basic Rating max. OB 125 A

Short Circuit Current Rating 480 V High Fault SCCR (fuse) 100 kA

Short Circuit Current Rating 480 V High Fault max. Fuse 100 Class J A

Short Circuit Current Rating 480 V High Fault SCCR (CB) 22 kA

Short Circuit Current Rating 480 V High Fault max. CB 32 A

Short Circuit Current Rating 600 V High Fault SCCR (fuse) 100 kA

Short Circuit Current Rating 600 V High Fault max. Fuse 100 Class J A

Short Circuit Current Rating 600 V High Fault SCCR (CB) 22 kA

Short Circuit Current Rating 600 V High Fault max. CB 32 A

Special Purpose Ratings Incandescent Lamps (Tungsten) 480V 60Hz 3phase, 277V 60Hz 1phase 35 A

Special Purpose Ratings Incandescent Lamps (Tungsten) 600V 60Hz 3phase, 347V 60Hz 1phase 35 A

Electromagnetic compatibility (EMC)

Emitted interference According to EN 60947-1

Interference immunity According to EN 60947-1

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[I_n]$ 21 A

Heat dissipation per pole, current-dependent $[\mathrm{P}_{\mathrm{id}}]$ 1 W

Equipment heat dissipation, current-dependent [P_{id}] 3 W

Static heat dissipation, non-current-dependent $[\mathrm{P}_{\mathrm{vs}}]$ 2.1 W

Heat dissipation capacity $[P_{diss}]$ 0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +60 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Neets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 properties10.9.2 Pow er-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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) / Power contactor, AC switching (EC000066)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])

Rated control supply voltage Us at AC 50HZ 230 - 230 V

Rated control supply voltage Us at AC 60HZ

240 - 240 V

Rated control supply voltage Us at DC 0 - 0 V

Voltage type for actuating AC

Rated operation current le at AC-1, 400 V 18 A

Rated operation current le at AC-3, 400 V 0 A

Rated operation power at AC-3, 400 V 0 kW

Rated operation current le at AC-4, 400 V 0 A

Rated operation power at AC-4, 400 V 0 kW

Rated operation power NEVA 0 kW

Modular version No

Number of auxiliary contacts as normally open contact 0

Number of auxiliary contacts as normally closed contact 0

Type of electrical connection of main circuit Screw connection

Number of normally closed contacts as main contact 0

Number of main contacts as normally open contact 3

APPROVALS

Product Standards IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking

UL File No. E29096

UL Category Control No. NLDX

CSA File No. 012528

CSA Class No. 3211-04

North America Certification UL listed, CSA certified

Specially designed for North America No

DIMENSIONS





distance at side to earthed parts: 6 mm





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