



Electronic Overload Relays - EOL Series

Catalogue number	EOL-40/□□□□□	EOL-80/□□□□□	EOL-200/□□□□□
			
	45x72.5x79.9 / 0.18	65x93.5x107 / 0.55 65x106.8x115 / 0.6	123x190x148.7 / 1.5
Control Unit	MCU		
Power Consumption	<300mW		
Current Sensors	3CT		
Current Setting Ranges	0.1~0.5A (005) 0.4~2A (02) 1~5A (05) 1.6~8A (08)	6.4~32A (32) 9~45A (45)	15~75A (75) 22~110A (110) 30~150A (150)
Operation Current Setting Ratio	5 : 1		
Internal / External CT	Internal		
Insulation Voltage(Ui) IEC	1000V		
Operation Voltage (Ue) IEC	690V		
Resistance to Vibrations (IEC 60.068)	6g [any direction 5~150Hz]		
Protection according to Shock-Hazard (VDE 0106 Part 100)	●		
Impulse withstand Voltage	8kV		
Index of protection (IP) (IEC 60529&VDE 0470)	IP 20	IP 20	IP 00
Trip Class (IEC)	5/10/20/30 selectable		
Self-Powered (control circuit)	●		
Ambient Temperature Compensation	●		
Trip indication	●		
Reset/Stop Functions	●		
Reset	Manual / Auto and Stop on Same Rod		
Function Test Method (test button)	Mechanical (yellow)		
Operation Protective Cover	●		
Mounting	Panel Mounting Din Rail (35mm)	●	—
Power Indicate (LED)on/off (Main Circuit)	option		
Hot/Cold State Trip Memory, Thermal Memory.	●		
Automatic Reset Time	1.5 min ~ 4min		
Manual Instantaneous Reset	●		
Mounting Position	Any		
Inrush Current Protection	> 10 x Max scale trip time is 0.35 (cold status)		
Phase Loss Protection.	● [phase difference than >70% , will trip within 3 seconds.]		
Phase Unbalance Protection.	● [phase difference than >40% , will trip within 3 seconds.]		
Overload curve	Inverse Time / Current Curve		
Compatible Contactor List	1 2 3 4 P (Note1)	CN-5/6 CU-11/16 CU-18/22/32R CU-38/40	CN-100R/125R CN-150 CN-180/220

Notes ● : available — : not available 1 : Separate mounting type. 2 : Patent in Taiwan, China & US (In Progress).

Certification and Approvals

TECO motor control products conform to internationally recognised standards and are suitable for use worldwide.

Catalogue number	Certificates			
	Canada CSA	Canada & U.S.A. UL US	Germany VDE	EEC Declaration of conformity CE
Miniature Contactors				
CN-5	●	●	●	●
CN-5K	●	●	●	●
CN-6	●	●	●	●
CN-6K	●	●	●	●
CNL-5	●	●	●	●
CNL-5K	●	●	●	●
CNL-6	●	●	●	●
CNL-6K	●	●	●	●
U&N Series IEC Contactors				
CU-11	●	●	●	●
CU-16	●	●	●	●
CU-18	●	●	●	●
CU-22	●	●	●	●
CU-32R	●	●	●	●
CU-38	●	●	●	●
CU-40	●	●	●	●
CU-50	●	●	●	●
CU-65	●	●	●	●
CU-80	●	●	●	●
CU-90	●	●	●	●
CN-100R	●	●	●	●
CN-125R	●	●	●	●
CN-150	●	●	●	●
CN-180	●	●	●	●
CN-220	●	●	●	●
CN-300	●	●	●	●
RHU / RHN Series Bimetallic Overload Relays				
RHU-5	●	●	●	●
RHU-10	●	●	●	●
RHU-80	●	●	●	●
RHN-180	●	●	●	●

Catalogue number	Certificates			
	Canada CSA	Canada & U.S.A. UL US	Germany VDE	EEC Declaration of conformity CE
D.O.L Magnetic Starters				
HUE-11/16	●	●	●	●
HUEB-11/16	●	●	●	●
HUF-11/16/18	●	●	●	●
HUFB-11/16/18	●	●	●	●
Definite Purpose Contactors				
DPA-1 Pole	●	●	●	●
DPA-1.5 Pole	●	●	●	●
DPA-2 Pole	●	●	●	●
DPA-3 Pole	●	●	●	●
Electronic Overload Relays				
EOL-40/	●	●	●	●
EOL-80/	●	●	●	●
EOL-200/	●	●	●	●
Accessories				
CUA-2	●	●	●	●
CUA-4	●	●	●	●
CUA-2M	●	●	●	●
CNA-4M	●	●	●	●
CNA-110	●	●	●	●
CNA-111B(C)	●	●	●	●
CNA-111SR	●	●	●	●
RAU-4	●	●	●	●
RAM-4	●	●	●	●
RAM-4K	●	●	●	●
CI-18/35	●	●	●	●
CNI-6	●	●	●	●
CNI-18	●	●	●	●
CNI-100	●	●	●	●
CNE-1	●	●	●	●
CSS-1/2(S)	●	●	●	●

Magnet systems

Type	Power Consumption		Pick-up voltage	Drop-out voltage	On Delay Times (ms)		Off Delay Time (ms)	
	Inrush(VA)	Sealed(VA)			N/C	N/O	N/C	N/O
CN-5K,CN-6K, RAM-4K	—	Max 3	Max 0.75	Max 0.55	15~30	20~40	5.0~15	4.0~10
CN-5, CN-6, RAM-4	Max 27	Max 5	Max 0.75	Max 0.55	15~20	16~22	12~18	8.0~14
CU-11, CU-16, RAU-4	Max 70	Max 12	Max 0.75	Max 0.55	10~22	15~23	7.0~16	7.0~14
CU-18, CU-22, CU-32R	Max 70	Max 12	Max 0.75	Max 0.55	8.0~24	12~26	12~20	6.0~14
CU-38	Max 150	Max 15	Max 0.75	Max 0.55	10~25	14~30	5.0~30	3.0~25
CU-40	Max 215	Max 27	Max 0.75	Max 0.55	9.0~16	14~20	8.0~14	4.0~14
CU-50, CU-65, CU-80, CU-90	Max 280	Max 32	Max 0.75	Max 0.55	12~18	15~30	5.0~12	10~16
CN-100R/125R	Max 560	Max 63	Max 11.6	Max 0.75	8~15	11~28	7~20	4~12
CN-150/180	Max 700	Max 88	Max 35	Max 0.75	13~26	21~31	9.0~26	5.0~22
CN-220/300	Max 1050	Max 63	Max 15	Max 0.75	10~40	10~40	12~30	24~30
DPA-1020, 1025, 1030, 1040	Max 25	Max 7.5	Max 4	Max 0.75	Max 0.6	—	—	—
DPA-1520, 1525, 1530, 1540	Max 25	Max 7.5	Max 4	Max 0.75	Max 0.6	—	—	—
DPA-2020, 2025, 2030, 2040	Max 40	Max 8.0	Max 4.5	Max 0.75	Max 0.6	—	—	—
DPA-3020, 3025, 3030, 3040	Max 65	Max 15	Max 7	Max 0.8	Max 0.6	—	—	—

U&N Series

AC Motor Controls



Mini Contactors

Catalogue number	AC						DC							
	CN-5		CN-6		CN-5K		CN-6K		CN-5K		CN-6K			
	CN-5P	[Note1]	CN-6P	[Note1]	CN-5PK	[Note1]	CN-6PK	[Note1]	CN-5PK	[Note1]	CN-6PK	[Note1]		
Rated insulation voltage (Ui) IEC/CNS V	690						690							
AC1 duty thermal current (Ith) IEC/CNS A	20						20							
AC3 duty Maximum power rating (50/60Hz) IEC 60947-4-1 CNS 14816	Single Phase	110V	8	0.37	0.5	10.5	0.55	0.75	8	0.37	0.5	10.5	0.55	0.75
		220V	7	0.75	1	10	1.1	1.5	7	0.75	1	10	1.1	1.5
		220/230V	7.5	1.5	2	10.1	2.2	3	7.5	1.5	2	10.1	2.2	3
		380/400V	7	3	4	9	4	5.5	7	3	4	9	4	5.5
		415V	6.5	3	4	8.5	4	5.5	6.5	3	4	8.5	4	5.5
Three Phase	440V	6	3	4	8	4	5.5	6	3	4	8	4	5.5	
	500V	5	3	4	6.5	4	5.5	5	3	4	6.5	4	5.5	
	660/690V	4	3	4	5	4	5.5	4	3	4	5	4	5.5	
NEMA SIZE EQUIVALENT	00						00							
Instantaneous auxiliary contacts	1 N/O or 1 N/C						1 N/O or 1 N/C							
Electrical Durability AC-3 (millionops)	1						1							
Mechanical Durability (millionops)	10						10							
Weight (kg)	0.18						0.23							

Note *1: PIN terminals which are suitable for PC board *

Thermal Overload Relays

Temperature compensated and differential overload relays, with 1 N/O + 1 N/C electrically separated auxiliary contacts.

Catalogue number	RHU-5/□*		
Relay current range (A) Complying with IEC 60947-4-1	0.1~0.16(0.16)	0.75~1(1)	2.9~4(4)
	0.16~0.25(0.25)	0.9~1.3(1.3)	3.5~4.8(4.8)
	0.25~0.4(0.4)	1.1~1.6(1.6)	4.5~6.3(6.3)
	0.35~0.5(0.5)	1.4~2(2)	5.5~7.5(7.5)
	0.45~0.63(0.63)	1.8~2.5(2.5)	7.2~10(10)
	0.55~0.8(0.8)	2.3~3.2(3.2)	9~12.5(12.5)

Note : □ : current range

Accessories

Catalogue number	CNA-2□M	CNA-4□M
Top-mounting Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	CNA-211M 1 N/O + 1 N/C CNA-220M 2 N/O CNA-202M 2 N/C	CNA-404M 4 N/C CNA-413M 1 N/O + 3 N/C CNA-422M 2 N/O + 2 N/C CNA-431M 3 N/O + 1 N/C
Catalogue number	CNI-6	
Mechanical interlock	Top-mounting	
Catalogue number	CNE-1□S	
Auxiliary coil types CNE-1S are suitable for AC/DC operation	BSR / 22-24V CSR / 45-50V ES / 100-120V HS / 200-240V	
Catalogue number	CSS-1□S (RC)	CSS-2□S (VARISTOR)
Coil surge suppressor CSS-1□S RC type CSS-2□S Varistor Type	BS / 24V CS / 48V ES / 110V HS / 220V OS / 440V	

