



# U & N

Series

## AC Motor Controls

# Mini Contactors




Coil Control Circuit			AC						DC					
Catalogue number			CN-5			CN-6			CN-5K			CN-6K		
			CN-5P (Note1)			CN-6P (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					
			A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
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
	Three Phase	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
		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) 0.16~0.25(0.25) 0.25~0.4(0.4) 0.35~0.5(0.5) 0.45~0.63(0.63) 0.55~0.8(0.8)	0.75~1(1) 0.9~1.3(1.3) 1.1~1.6(1.6) 1.4~2(2) 1.8~2.5(2.5) 2.3~3.2(3.2)	2.9~4(4) 3.5~4.8(4.8) 4.5~6.3(6.3) 5.5~7.5(7.5) 7.2~10(10) 9~12.5(12.5)

Note : □ : current range

## Accessories

Catalogue number	CNA-2□□M	CNA-4□□M
<b>Top-mounting</b> Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	<b>CNA-211M</b> 1 N/O + 1 N/C <b>CNA-220M</b> 2 N/O <b>CNA-202M</b> 2 N/C	<b>CNA-404M</b> 4 N/C <b>CNA-413M</b> 1 N/O + 3 N/C <b>CNA-422M</b> 2 N/O + 2 N/C <b>CNA-431M</b> 3 N/O + 1 N/C
<b>Mechanical interlock</b>	<b>CNI-6</b>  Top-mounting 90.5x25x16	
<b>Auxiliary coil types CNE-1S</b> are suitable for AC/DC operation	<b>CNE-1□S</b>  <b>BSR / 22-24V</b> <b>CSR / 45-50V</b> <b>ES / 100-120V</b> <b>HS / 200-240V</b> 45x44.2x43	
<b>Coil surge suppressor</b> CSS-1□S RC type CSS-2□S Varistor Type	<b>CSS-1□S (RC)</b> <b>CSS-2□S (VARISTOR)</b>  <b>BS / 24V</b> <b>CS / 48V</b> <b>ES / 110V</b> <b>HS / 220V</b> <b>OS / 440V</b> 35x29x24.7	



# AC Magnetic Contactors

Catalogue number		CU-11	CU-16	CU-18	CU-22	CU-32R	CU-38	CU-40R	CU-50																
 Overall Dimensions (w x h x d) mm		45x70x82	45x70x82	55x72x92	55x72x92	58x94.3x111.7	58x94.3x111.7	69x99x111.7	93.5x116x12																
Rated insulation voltage (Ui) IEC / UL V		690/660	690/660	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600																
AC1 duty thermal current (Ith) IEC / UL A		25/24	25/32	35/35	40/40	60/50	60/55	60/60	70/72																
		A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
AC3 duty Maximum power rating (50/60Hz) IEC 60947-4-1 CNS 14816	Single Phase	110V	10.5	0.55	0.75	13.5	0.75	1	19.5	1.1	1.5	25.5	1.5	2	35	1.5	2	39	2.2	3	43	2.2	3	48	3
		220V	10.5	1.1	1.5	14	1.5	2	20.5	2.2	3	26	3	4	35	3.7	5	39	5	7	43	5.5	7.5	48	6
	Three Phase	220/230V	12	3	4	16	4	5.5	23	5.5	7.5	27	7.5	10	35	9	12	39	11	15	44	11	15	55	15
		380/400V	12	5.5	7.5	16	7.5	10	22	11	15	26	11	15	32	15	20	38	18.5	25	40	20	27	55	25
		415V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	38	22	30	40	22	30	52	25
		440V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	38	22	30	40	22	30	52	30
		500V	9	5.5	7.5	13	7.5	10	19	11	15	19	11	15	30	18.5	25	33	22	30	35	22	30	45	30
660V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	23	18.5	25	25.2	22	30	26	22	30	35	30		
690V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	22	18.5	25	24.2	22	30	26	22	30	35	30		
NEMA SIZE EQUIVALENT		0			1			2																	
Instantaneous auxiliary contacts		1 N/O or 1 N/C			1 N/O 1 N/C			1 N/O 1 N/C			1 N/O 1 N/C			2											
Electrical Durability (ops) AC3		1M			1M			1M			1M														
Mechanical Durability (ops)		5M			5M			5M			5M														
Weight (kg)		0.3			0.4			0.4			0.7			0.86											

Note : Lug terminals are options for contactors CU-11 to CU-80.








## Thermal Overload Relays







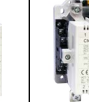


Temperature compensated and differential overload relays, with 1 N/O + 1 N/C

Catalogue number	RHU-10/□*	RHU-
Relay current range (A) Complying with IEC 60947-4-1	 45x70.5x72 / 0.1   48.5x69x78.5	0.1~0.16(0.16)    1.4~2(2)    11.3~16(16) 0.16~0.25(0.25)    1.8~2.5(2.5)    15~20(20) 0.25~0.4(0.4)    2.3~3.2(3.2)    17.5~21.5(21.5) 0.35~0.5(0.5)    2.9~4(4)    21~25(25) 0.45~0.63(0.63)    3.5~4.8(4.8)    24.5~30(30) 0.55~0.8(0.8)    4.5~6.3(6.3)    29~36(36) 0.75~1(1)    5.5~7.5(7.5) 0.9~1.3(1.3)    7.2~10(10) 1.1~1.6(1.6)    9~12.5(12.5)
		56x78x97.5 / 0.41
	RP-10(Separate Mounting Kit for RHN-10)	

Note: RHU-10/□A:3 pole differential type; RHU-10/□M:3 pole non-differential type; RHU-10/□K:2 pole non-differential type. □: current range






## Accessories




Catalogue number	CUA-2□□	CUA-4
<b>Top-mounting</b> Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	 24x46x34.1	 44.5x46x34.1
	<b>CUA-211</b> 1 N/O + 1 N/C <b>CUA-220</b> 2 N/O <b>CUA-202</b> 2 N/C	
Catalogue number	CNA-111SR	
<b>Side-mounting</b> Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	 12x65x70.3	
	Side-mounting 1 N/O + 1 N/C	
Catalogue number	CI-18	CNI-18
<b>Mechanical interlock</b>	 10x42x50 Side-mounting	 10x62x47.9 Side-mounting with 2 N/C
Catalogue number	CNE-1□	
Coil drive unit CNE-1 are suitable for AC/DC operation except those identified with "DC only" note.	 45x44.2x43 □: BR / 22-24V (DC only) CR / 45-50V E / 100-120V H / 200-240V	
Catalogue number	CSS-1□ (RC)	CSS-2□ (VARISTOR)
Coil surge suppressor CSS-1□ RC type CSS-2□ Varistor Type	 35x29x24.7 □: B / 22-24V C / 45-50V E / 100-125V H / 200-240V O / 380-440V	

DR	CU-65R	CU-80	CU-90	CN-100-R	CN-125-R	CN-150R	CN-180	CN-220	CN-300																		
																											
	93.5x116x123	93.5x150x123	93.5x150x123	100x136x133	100x136x133	130x168x157.2	130x168x157.2	146x184x183.2	146x184x183.2																		
	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600	1000/600																		
	80/85	100/104	135/120	135/130	150/150	200/200	240/240	260/260	350/350																		
Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp			
4	50	3	4	60	4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
8	50	6	8	60	7.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20	65	18.5	25	75	22	30	85	25	25	105	30	40	126	37	50	150	45	60	182	55	75	225	65	85	300	90	120
35	64	30	40	72	37	50	85	45	45	105	55	75	115	60	80	147	80	110	179	95	125	225	120	160	300	160	220
35	64	33	45	72	40	54	85	45	45	100	55	75	115	63	85	138	80	110	182	100	136	220	132	170	300	160	220
40	64	37	50	70	40	54	85	51	51	100	55	75	115	63	85	138	80	110	182	110	136	220	132	170	300	160	220
40	55	37	50	65	45	60	80	55	55	93	65	85	105	75	100	129	90	125	156	110	150	190	132	180	250	160	220
40	45	37	50	60	45	60	65	55	55	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	220	270
40	45	37	50	60	45	60	65	55	55	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	220	270
2				3						4						4			5								
N/O	2 N/C		2 N/O 2 N/C												2 N/O		2 N/C										
1M	1M												1M														
5M	5M												5M														
1.3	1.3			1.9			4.1			6.7																	

□ electrically separated auxiliary contacts.

Combination of Overload Relay and Current Transformer

80/□*	RHU-80/□5	RHN-180/□1	RHN-180/□3	RHN-180□4	RHN-300
17~25 (25) 23~32 (32) 30~40 (40) 37~50 (50) 48~65 (65) 63~80 (80) 77~97 (97)	 56x118.5x97.5 / 0.4 58~75 (75) 63~80 (80) 77~97 (97)	 100x102x105 / 1.26 65~95 (95) 85~125 (125) 110~160 (160)	 100x135x105 / 1.26 65~95 (95) 85~125 (125) 110~160 (160) 125~185 (185)	 100x135x105 / 1.26 65~95 (95) 85~125 (125) 110~160 (160) 125~185 (185)	 150*158.5*147.2/2.73 145~200 (200) 175~240 (240) 203~280 (280) 245~336 (336)

<p>□</p> <p><b>CUA-404</b> 4 N/C <b>CUA-413</b> 1 N/O + 3 N/C <b>CUA-440</b> 4 N/O <b>CUA-422</b> 2 N/O + 2 N/C <b>CUA-431</b> 3 N/O + 1 N/C</p>	N/A
N/A	<p><b>CNA-111BC</b></p> <p> 12.4x76x51</p> <p>Side-mounting 1 N/O + 1 N/C</p>
<p><b>CI-35</b></p> <p> 10x42x50</p> <p>Side-mounting</p>	<p><b>CNI-100</b></p> <p> 12.4x66x66</p> <p>Side-mounting</p>
or CU-40~90)	<p>N/A</p> <p>Contactors with built-in coil drive unit : CN-□□□WC 45-50V CN-□□□WE 100-120V CN-□□□WH 200-240V □□□□ : Basic model 150/180/220/300</p>
	N/A

# D.O.L. Magnetic Starters

IP 00



HUB-11

Metal



HU-11

Metal



HUB-11

IP 40



HUE-11

IP 40



HUEB-11

IP 42



HUP-11

IP 42



HUPB-11

IP 65



HUF-11

IP 65






HUF-11

Catalogue number	Non-Reversing Magnetic Starters	Metal	<b>HU-11</b>	<b>HU-16</b>	<b>HU-18</b>	<b>HU-22</b>	<b>HU-32R</b>	<b>HU-38</b>	<b>HU-40R</b>	<b>HU-50R</b>																
		IP 00	<b>HUO-11</b>	<b>HUO-16</b>	<b>HUO-18</b>	<b>HUO-22</b>	<b>HUO-32R</b>	<b>HUO-38</b>	<b>HUO-40R</b>	<b>HUO-50R</b>																
		IP 40	<b>HUE-11</b>	<b>HUE-16</b>	—	—	—	—	—	—																
		IP 42	<b>HUP-11</b>	<b>HUP-16</b>	<b>HUP-16</b>	<b>HUP-22</b>	—	—	—	—																
		IP 65	<b>HUF-11</b>	<b>HUF-16</b>	<b>HUF-18</b>	<b>HUF-22</b>	—	—	—	—																
Catalogue number	Non-Reversing Magnetic Starters (with Push-Buttons on Enclosure)	Metal	—	—	—	—	<b>HUB-32R</b>	<b>HUB-38</b>	<b>HUB-40R</b>	<b>HUB-50R</b>																
		IP 40	<b>HUEB-11</b>	<b>HUEB-16</b>	<b>HUEB-18</b>	<b>HUEB-22</b>	—	—	—	—																
		IP 42	<b>HUPB-11</b>	<b>HUPB-16</b>	<b>HUPB-18</b>	<b>HUPB-22</b>	—	—	—	—																
		IP 65	<b>HUFB-11</b>	<b>HUFB-16</b>	<b>HUFB-16</b>	<b>HUFB-22</b>	—	—	—	—																
Rated insulation voltage (U <sub>i</sub> ) IEC / UL V		690/600			690/600			1000/600			1000/600			1000/600			1000/600			1000/600						
AC3 duty Maximum power rating (50/60Hz) IEC 60947-4-1 CNS 14816	Single Phase	110V	10.5	0.55	0.75	13.5	0.75	1	19.5	1.1	1.5	25.5	1.5	2	35	1.5	2	39	2.2	3	43	2.2	3	48	3	4
		220V	10.5	1.1	1.5	14	1.5	2	20.5	2.2	3	26	3	4	35	3.7	5	39	5	7	43	5.5	7.5	48	6	8
	Three Phase	220/230V	12	3	4	16	4	5.5	23	5.5	7.5	27	7.5	10	35	9	12	39	11	15	44	11	15	55	15	20
		380/400V	12	5.5	7.5	16	7.5	10	22	11	15	26	11	15	32	15	20	38	18.5	25	40	20	27	55	25	35
		415V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	38	22	30	40	22	30	52	25	35
		440V	11	5.5	7.5	15	7.5	10	21	11	15	21	11	15	32	15	20	38	22	30	40	22	30	52	30	40
		500V	9	5.5	7.5	13	7.5	10	19	11	15	19	11	15	30	18.5	25	33	22	30	35	22	30	45	30	40
		660V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	23	18.5	25	25.2	22	30	26	22	30	35	30	40
690V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	22	18.5	25	24.2	22	30	26	22	30	35	30	40		
Thermal overload relay used.		RHU-10/□1			RHU-10/□1			RHU-10/□1			RHU-10/□1			RHU-80/□4			RHU-80/□4			RHU-80/□4						
Magnetic contactor used.		CU-11			CU-16			CU-18			CU-22			CU-32R			CU-38			CU-40R			CU-50R			
Electrical Durability (ops) AC3		1M			1M			1M			1M			1M			1M			1M			1M			
Mechanical Durability (ops)		5M			5M			5M			5M			5M			5M			5M			5M			
Overall Dimensions (w* h * d) mm / (kg)	Metal	88*162.6*106 / 0.85			100*170.6*111 / 0.85			100*170.6*111 / 1.0			130*240*130 / 2.0			130*240*130 / 2.2			170x330									
		IP 00	46*119*82 / 0.5			55*124.3*92 / 0.5			55*143.5*94 / 0.65			58*152.5*111.7 / 1.0			69*157.5*111.7 / 1.2			93*169								
	IP 40	88*160*94 / 0.85			—			—			—			—			—									
	IP 42	90*184*106.5 / 0.5			100*194*116.5 / 0.9			—			—			—			—									
	IP 65	90*184*106.5 / 0.5			100*194*116.5 / 0.9			—			—			—			—									
	Metal	—			—			100*170.6*117.3 / 1.0			130*240*136 / 2.0			130*240*136 / 2.2			170x330									
		IP 40	88*160*107.5 / 0.9			100*170.6*117.3 / 2.0			—			—			—			—								
		IP 42	90*184*112.5 / 0.9			100*194*122.5 / 0.9			—			—			—			—								
IP 65		90*184*112.5 / 0.9			100*194*122.5 / 0.9			—			—			—			—									

<b>HU-65R</b>			<b>HU-80</b>			<b>HU-90</b>			<b>HN-100</b>			<b>HN-125</b>			<b>HN-150R</b>			<b>HN-180</b>			<b>HN-220</b>			<b>HN-300</b>					
<b>HUO-65R</b>			<b>HUO-80</b>			<b>HUO-90</b>			<b>HNO-100</b>			<b>HNO-125</b>			<b>HNO-150R</b>			<b>HNO-180</b>			<b>HNO-220</b>			<b>HNO-300</b>					
— —			—			—			—			—			—			—			—			—					
— —			—			—			—			—			—			—			—			—					
— —			—			—			—			—			—			—			—			—					
<b>HUB-65R</b>			<b>HUB-80</b>			<b>HUB-90</b>			—			—			—			—			—			—					
— —			—			—			—			—			—			—			—			—					
— —			—			—			—			—			—			—			—			—					
— —			—			—			—			—			—			—			—			—					
1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600					
A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp
50	3	60	4	4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	6	60	8	7.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	18.5	75	25	22	30	85	25	25	115	30	40	126	37	50	150	45	60	182	55	75	225	65	85	300	90	120			
64	30	72	40	37	50	85	45	45	115	55	75	115	60	80	147	80	110	179	95	125	225	120	160	300	160	220			
64	33	72	45	40	54	85	45	45	105	55	75	115	63	85	138	80	110	182	100	136	220	132	170	300	160	220			
64	37	70	50	40	54	85	51	51	105	55	75	115	63	85	138	80	110	182	110	136	220	132	170	300	160	220			
55	37	65	50	45	60	80	55	55	93	65	85	105	75	100	129	90	125	156	110	150	190	132	180	250	160	220			
45	37	60	50	45	60	65	55	55	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	220	270			
45	37	60	50	45	60	65	55	55	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	220	270			
)□3			RHN-80/□3						RHU-180/□1						RHN-180/□3			RHN-300											
CU-65R			CU-80			CU-90			CN-100-R			CN-125-R			CN-150R			CN-180			CN-220			CN-300					
1M			1M			1M			1M			1M			1M			1M			1M			1M					
5M			5M			5M			5M			5M			5M			5M			5M			5M					
x151/3.5			170x330x151/3.5						250*424*172.3/5.2						350x550x202/8.4						350*550*202.3/13.5								
*123/1.8			93*219.3*123/1.8						100*225*133/2.4						130x255.5x157.2/4.8						146*339.7/183.2/8.3								
—			—						—						—						—								
—			—						—						—						—								
—			—						—						—						—								
x157/3.5			170x330x157/3.5						—						—						—								
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# 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
Specification	Control Unit	MCU		
	Power Consumption	<300mW		
	Current Sensors	3CT		
	Current Setting Ranges	0.1~0.5A (005) 6.4~32A (32) 0.4~2A (02) 9~45A (45) 1~5A (05) 1.6~8A (08)	15~75A (75) 22~110A (110)	30~150A (150)
	Operation Current Setting Ratio	5 : 1		
	Internal / External CT	Internal		
	Insulation Voltage(Ui) IEC	Main Circuit	1000V	
		Auxiliary Circuit	690V	
	Operation Voltage (Ue) IEC	Main Circuit	690V	
		Auxiliary Circuit	660V	
	Resistance to Vibrations (IEC 60.068)	6g (any direction 5~150Hz)		
	Protection to Shock-Hazard, According to (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	●			
Mechanism Functions	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)		●	—	
Electronic Function	Power Indicate (LED)on/off (Main Circuit)	option		
	Hot/Cold State Trip Memory. Thermal Memeory.	●		
	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	CN-5/6	CU-50R/65R/80/90	CN-100-R/125-R
	2	CU-11/16	CN-100-R/125-R	CN-150R
	3	CU-18/22/32R	—	CN-180/220
	4	CU-38/40R	—	—
	P (Note1)	●	●	—

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	Canada & U.S.A.	Germany	EC Declaration of conformity
				
<b>Miniature Contactors</b>				
CN-5	●	●	●	●
CN-5K	●	●	●	●
CN-6	●	●	●	●
CN-6K	●	●	●	●
CNL-5	●	●	●	●
CNL-5K	●	●	●	●
CNL-6	●	●	●	●
CNL-6K	●	●	●	●
<b>U&amp;N Series IEC Contactors</b>				
CU-11	●	●	●	●
CU-16	●	●	●	●
CU-18	●	●	●	●
CU-22	●	●	●	●
CU-32R		●		●
CU-38	●	●		●
CU-40R	●	●	●	●
CU-50R	●	●	●	●
CU-65R	●	●	●	●
CU-80	●	●	●	●
CU-90		●		●
CN-100-R		●		●
CN-125-R		●		●
CN-150R	●	●		●
CN-180	●	●		●
CN-220	●	●		●
CN 300	●	●		●
<b>RHU / RHN Series Bimetallic Overload Relays</b>				
RHU-5	●	●		●
RHU-10	●	●		●
RHU-80	●	●		●
RHN-180	●	●		●

Catalogue number	Certificates			
	Canada	Canada & U.S.A.	Germany	EC Declaration of conformity
				
<b>D.O.L Magnetic Starters</b>				
HUE-11/16			●	●
HUEB-11/16			●	●
HUF-11 16/18			●	●
HUFB-11/16/18			●	●
<b>Electronic Overload Relays</b>				
EOL-40/	●	●	●	●
EOL-80/	●	●	●	●
EOL-200/	●	●	●	●
<b>Accessories</b>				
CUA-2	●	●	●	●
CUA-4	●	●	●	●
CNA-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		Power Dissipation (W)	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 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 4	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 4	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 4	Max 0.75	Max 0.55	8.0–24	12–26	12–20	6.0–14
CU-38	Max 150	Max 15	Max 5	Max 0.75	Max 0.55	10–25	14–30	5.0–30	3.0–25
CU-40R	Max 215	Max 27	Max 6	Max 0.75	Max 0.55	9.0–16	14–20	8.0–14	4.0–14
CU-50R,CU-65R,CU-80,CU-90	Max 280	Max 32	Max 7.5	Max 0.75	Max 0.55	12–18	15–30	5.0–12	10–16
CN-100-R/125-R	Max 560	Max 63	Max 11.6	Max 0.75	Max 0.6	8–15	11–28	7–20	4–12
CN-150R/180	Max 700	Max 88	Max 35	Max 0.75	Max 0.45	13–26	21–31	9.0–26	5.0–22
CN-220/300	Max 1050	Max 63	Max 15	Max 0.75	Max 0.45	10–40	10–40	12–30	24–30



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More information



GM-14-032022-04-15