



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)	0.75~1(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	 45*31*30/0.04	 45*31*30/0.04	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	 90.5x25x16 Top-mounting			
Catalogue number	CNE-1□S			
Auxiliary coil types CNE-1S are suitable for AC/DC operation	 45x44.2x43 BSR / 22-24V CSR / 45-50V ES / 100-120V HS / 200-240V			

AC Magnetic Contactors

Catalogue number			CU-11			CU-16			CU-18			CU-22			CU-32R			CU-38			CU-40R			CU-50 R			CU-65R			CU-80			CU-90			CN-100-R			CN-125-R			CN-150R			CN-180			CN-220			CN-300					
Overall Dimensions (w x h x d) mm																																																								
Rated insulation voltage (Ui) IEC / UL V			690/660			690/660			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			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			80/85			100/104			135/120			135/130			150/150			200/200			240/240			260/260			350/350					
AC3 duty Maximum power rating (50/60Hz) IEC 60947-4-1 CNS 14816	Single Phase	110V	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	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp	A	kW	Hp						
		220V	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	50	3	4	60	4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	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	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			
		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	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			
		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	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			
		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	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			
		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	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			
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	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					
690V	7	5.5	7.5	10	7.5	10	14	11	15	14	11	15	23	18.5	25	24.2	22	30	26	22	30	35	30	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					
NEMA SIZE EQUIVALENT			0			1			1			2			2			2			2			2			3			3			4			4			4			4			5											
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 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C			2 N/O 2 N/C								
Electrical Durability (ops) AC3			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M								
Mechanical Durability (ops)			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M								
Weight (kg)			0.3			0.4			0.4			0.4			0.7			0.86			1.3			1.3			1.3			1.9			1.9			4.1			4.1			6.7			6.7											

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 electrically separated auxiliary contacts.

Combination of Overload Relay and Current Transformer

Catalogue number	RHU-10/□*				RHU-80/□*				RHU-80/□5	RHN-180/□1	RHN-180/□3	RHN-180□4	RHN-300
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)	11.3~16(16) 15~20(20) 17.5~21.5(21.5) 21~25(25) 24.5~30(30) 29~36(36)	 56x78x97.5 / 0.41	17~25 (25) 23~32 (32) 30~40 (40) 37~50 (50) 48~65 (65) 63~80 (80) 77~97 (97)	 100X102x105 / 1.26	 100X135x105 / 1.26	 100X135x105 / 1.26	 150*158.5*147.2/2.73			
		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							
Top-mounting Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	 24x46x34.1 CUA-211 1 N/O + 1 N/C CUA-220 2 N/O CUA-202 2 N/C				 44.5x46x34.1 CUA-404 4 N/C CUA-413 1 N/O + 3 N/C CUA-440 4 N/O CUA-422 2 N/O + 2 N/C CUA-431 3 N/O + 1 N/C				N/A			
Catalogue number	CNA-111SR								CNA-111BC			
Side-mounting Auxiliary contact blocks Complying with IEC 60947-5-1 UL 508 CSA 22.2	 12x65x70.3 Side-mounting 1 N/O + 1 N/C				N/A				 12.4x76x51 Side-mounting 1 N/O + 1 N/C			
Catalogue number	CI-18		CNI-18		CI-35				CNI-100			
Mechanical interlock	 10x42x50 Side-mounting		 10x62x47.9 Side-mounting with 2 N/C		 10x42x50 Side-mounting				 12.4x66x66 Side-mounting			
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 for CU-40~90) CR / 45-50V E / 100-120V H / 200-240V								N/A		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	
Catalogue number	CSS-1				CSS-2							

D.O.L. Magnetic Starters



Catalogue number	Non-Reversing Magnetic Starters	Metal	HU-11			HU-16			HU-18			HU-22			HU-32R			HU-38			HU-40R			HU-50R			HU-65R			HU-80			HU-90			HN-100			HN-125			HN-150R			HN-180			HN-220			HN-300																					
		IP 00	HUO-11			HUO-16			HUO-18			HUO-22			HUO-32R			HUO-38			HUO-40R			HUO-50R			HUO-65R			HUO-80			HUO-90			HNO-100			HNO-125			HNO-150R			HNO-180			HNO-220			HNO-300																					
		IP 40	HUE-11			HUE-16			—			—			—			—			—			—			—			—			—			—			—			—			—			—																								
		IP 42	HUP-11			HUP-16			HUP-16			HUP-22			—			—			—			—			—			—			—			—			—			—			—																											
	IP 65	HUF-11			HUF-16			HUF-18			HUF-22			—			—			—			—			—			—			—			—			—			—			—			—																									
	Non-Reversing Magnetic Starters (with Push- Buttons on Enclosure)	Metal	—			—			—			—			HUB-32R			HUB-38			HUB-40R			HUB-50R			HUB-65R			HUB-80			HUB-90			—			—			—			—			—			—																					
		IP 40	HUEB-11			HUEB-16			HUEB-18			HUEB-22			—			—			—			—			—			—			—			—			—			—			—			—			—																					
IP 42		HUPB-11			HUPB-16			HUPB-18			HUPB-22			—			—			—			—			—			—			—			—			—			—			—			—			—																						
IP 65	HUFB-11			HUFB-16			HUFB-16			HUFB-22			—			—			—			—			—			—			—			—			—			—			—			—			—			—																				
Rated insulation voltage (Ui) IEC / UL V			690/600			690/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			1000/600			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	50	3	60	4	4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																				
		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	50	6	60	8	7.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
	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	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																			
		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	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																			
		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	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																			
		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	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																			
		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	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																			
		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	45	37	60	50	45	60	65	55	75	65	85	85	75	100	107	100	136	118	110	150	140	132	180	220	220	270																				
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	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																					
Thermal overload relay used.			RHU-10/□1						RHU-10/□1						RHU-10/□1						RHU-80/□4						RHU-80/□3						RHN-80/□3						RHU-180/□1						RHN-180/□3						RHN-300																					
Magnetic contactor used.			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																					
Electrical Durability (ops) AC3			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M			1M																								
Mechanical Durability (ops)			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M			5M																								
h w d 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						170x330x151/3.5						170x330x151/3.5						250*424*172.3/5.2						350x550x202/8.4						350*550*202.3/13.5																
	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*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																
	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						170x330x157/3.5						170x330x157/3.5						—						—						—																
	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						—						—						—						—						—						—						—						—						—						—					

Magnet systems

Miniature Contactors

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/6K/RAM-4K	—	Max 3	Max 3	Max 0.75	Max 0.55	15~30	20~40	5.0~15	4.0~10
CN-5/6/RAM-4	Max 27	Max 5	Max 4	Max 0.75	Max 0.55	15~20	16~22	12~18	8.0~14

U&N Series IEC Contactors

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
CU-11/16/10(4P)/RAU-4	Max 70	Max 12	Max 4	Max 0.7	Max 0.55	10~22	15~23	7.0~16	7.0~14
CU-12/17	Max 70	Max 12	Max 4	Max 0.75	Max 0.55	10~22	15~23	7.0~16	7.0~14
CU-18/22/32R	Max 70	Max 12	Max 4	Max 0.75	Max 0.55	8.0~24	12~26	12~20	6.0~14
CU-18(4P)/22(4P)	Max 70	Max 12	Max 4	Max 0.75	Max 0.55	8.0~24	12~26	12~20	6.0~14
CU-38/40R	Max 150	Max 15	Max 5	Max 0.75	Max 0.55	10~25	14~30	5.0~30	3.0~25
CU-50R/65R	Max 260	Max 30	Max 6.8	Max 0.75	Max 0.55	12~19	10~22	7~9	9~16
CU-80/90	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/150R	Max 560	Max 63	Max 6~11.6	Max 0.75	Max 0.6	8~15	11~28	7~20	4~12
CN-180	Max 700	Max 88	Max 35	Max 0.75	Max 0.45	13~26	21~31	9.0~26	5.0~22
CN-220R	Max 700	Max 88	Max 17	Max 0.75	Max 0.45	13~26	21~31	9.0~26	5.0~22
CN-300	Max 1050	Max 63	Max 15	Max 0.75	Max 0.45	10~40	10~40	12~30	24~30

Certification and Approvals

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

Catalogue number	Certificates		
	Canada	Germany	EC Declaration of Conformity
			
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-40R	●	●	
CU-50R	●	●	●
CU-65R	●	●	●
CU-80	●	●	●
CU-90	●		●
CN-100-R	●	●	●
CN-125-R	●	●	●
CN-150R	●	●	●
CN-180	●		●
CN-220R	●	●	●
CN-300	●		●

Catalogue number	Certificates		
	Canada	Germany	EC Declaration of Conformity
			
RHU/RHN Series Bimetallic Overload Relays			
RHU-5	●		●
RHU-10	●		●
RHU-80	●		●
RHN-180	●		●
D.O.L Magnetic Starters			
HUE-11/16		●	●
HUEB-11/16		●	●
HUF-11/16/18		●	●
HUFB-11/16/18		●	●
Accessories			
CUA-2	●	●	●
CUA-4	●	●	●
CNA-2M	●	●	●
CNA-4M	●	●	●
CNA-110	●	●	●
CNA-111B	●	●	●
CNA-111C	●	●	●
CNA-111S-R	●	●	●
RAU-4	●		
RAM-4	●		●
RAM-4K	●		●
CI-18/ 35	●		
CNI-6	●		
CNI-18	●		
CNI-100	●		
CNE-1/2	●		



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More information



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Specifications and ratings provided in this brochure are subject to change without prior notice.

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