

IEC Power Devices IEC Control Relays Selection Guide C-2000

Section 5

AC Operated Standard Terminals

Contact Configuration	Product Number
4NO	RL4RA040T*
3NO-1NC	RL4RA031T*
2NO-2NC	RL4RA022T*
4NC	RL4RA004T*

AC Operated with Ring Terminal Capacity

Contact Configuration	Product Number
4NO	RL4RA040R*
3NO-1NC	RL4RA031R*
2NO-2NC	RL4RA022R*
4NC	RL4RA004R*

To complete the product number, replace the asterisk (*) with the appropriate digit from the Coil Selection table. Contact Rating: A600, P600.

AC Coil Selection

AC Voltage		* Coil Suffix
60 Hz	50 Hz	
24	24	1
48	42	F
120	110	J
208	—	L
277	220/230	N
240	—	S
480	380/400	U
—	415	W
600	500	Y

DC Operated Standard Terminals

Contact Configuration	Product Number
4NO	RL4RD040T#
3NO-1NC	RL4RD031T#
2NO-2NC	RL4RD022T#
4NC	RL4RD004T#

DC Operated with Ring Terminal Capacity

Contact Configuration	Product Number
4NO	RL4RD040R#
3NO-1NC	RL4RD031R#
2NO-2NC	RL4RD022R#
4NC	RL4RD004R#

To complete the product number, replace the crosshatch (#) with the appropriate digit from the Coil Selection table. Contact Rating: A600, P600.

DC Coil Selection

DC Voltage	# Coil Suffix
12	B
24	D
48	G
125	K
250	T

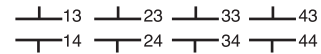
Reference Publications

Instructions	
GEH-6248	RL Relay

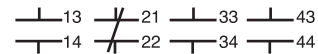


Control Relay

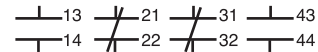
Control Terminal Relay Markings



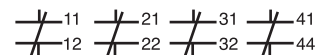
RL4R_040_



RL4R_031_



RL4R_022_



RL4R_004_



Product Number Selection Instructions: See page 5-37

IEC Power Devices

IEC Contactors Technical Data

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Section 5

CL/CK Contactors

		CL00A310**, CL00D310**, LAR00A*, LDR00A*	CL01A310**, CL01D310**, LAR01A*, LDR01A*	CL02A310**, CL02D310**, LAR02A*, LDR02A*	CL25A310**, CL25D310**, LAR25A*, LDR25A*	CL04A310**, CL04D310**, LAR04A*, LDR04A*	CL45A310**, CL45D310**, LAR45A*, LDR45A*	
Main Contacts								
Continuous Amp Rating (UL508)		25	25	32	32	54	55	
AC-1 Amps (IEC 947)		25	25	32	45	60	60	
AC-2/AC3 FLA (max)	200 Volts	10	13.8	17.5	22	32	34	
	460 Volts	10	13.8	17.5	22	32	34	
	575 Volts	10	13.8	17.5	17.5	32	27	
AC-2/AC-3 HP(max) 1 Phase	115 Volts	0.5	0.75	1	1.5	2	3	
	230 Volts	1.5	2	3	3	5	5	
AC-2/AC-3 HP(max) 3 Phase	200 Volts	3	3	5	5	10	10	
	230 Volts	3	3	5	7.5	10	10	
	460 Volts	5	7.5	10	15	20	25	
	575 Volts	7.5	10	15	15	25	25	
AC2/3 kW	380/400 Volts	4	5.5	7.5	11	16	18.5	
AC2/3 Amps IEC 947	380/400 Volts	9	12	18	25	32	40	
AC-4 HP (max) 3 Phase	200 Volts	3	3	5	5	10	10	
	230 Volts	3	3	5	7.5	10	10	
	460 Volts	5	7.5	10	15	20	25	
	575 Volts	7.5	10	15	15	25	25	
Maximum Operational Current 460V and below	AC-1 < 300 ops/hour	25	25	32	32	54	55	
	AC-1 < 600 ops/hour	25	25	32	32	54	55	
	AC-1 < 1200 ops/hour	25	25	32	32	54	55	
	AC-1 3000 ops/hour	12.5	12.5	16	16	27	27.5	
	AC-3 < 300 ops/hour	10	13.8	17.5	22	32	34	
	AC-3 < 600 ops/hour	10	13.8	17.5	22	32	34	
	AC-3 < 1200 ops/hour	10	13.8	17.5	22	32	34	
	AC-3 3000 ops/hour	3.5	4.8	6.1	7.7	11.2	11.9	
	AC-4 200 ops/hour max	10	13.8	17.5	22	32	34	
	AC-4 300 ops/hour max	10	13.8	17.5	22	32	34	
	AC-4 360 ops/hour max	10	13.8	17.5	22	32	34	
	Wire size - Power Terminals 75C(Cu)		14-10 AWG	14-10 AWG	14-10 AWG	14-10 AWG	14-10 AWG	14-10 AWG
	Torque (Main) in.-lb.		15	15	15	20	16	16
Terminal Type		Clamp	Clamp	Clamp	Clamp	Clamp	Clamp	
Terminal Hole (Contactor Bar)	Diameter	-	-	-	-	-	-	
	Bolt Size	-	-	-	-	-	-	
Noise	dba	25	25	25	25	25	35	
Coil and Switching Data Coil Burden	Inrush (AC Voltage)	45 va	45 va	45 va	45 va	88 va	88 va	
	Holding (AC Voltage)	6 va	6 va	6 va	6 va	9 va	9 va	
	Inrush (DC Voltage)	5.5 w	5.5 w	5.5 w	5.5 w	7.5 w	7.5 w	
	Holding (DC Voltage)	5.5 w	5.5 w	5.5 w	5.5 w	7.5 w	7.5 w	
	Inrush (AC/DC Module)							
	Holding (AC/DC Module)							
Pick-up (% coil voltage)	AC Voltage	85-110	85-110	85-110	85-110	85-110	85-110	
	DC Voltage	80-110	80-110	80-110	80-110	80-110	80-110	
	AC/DC Module	-	-	-	-	-	-	
Drop-out (% coil voltage)	AC Voltage	40-55	40-55	40-55	40-55	40-55	40-55	
	DC Voltage	20-40	20-40	20-40	20-40	15-30	15-30	
	AC/DC Module	-	-	-	-	-	-	
Switching Delay ON (ms)	AC Voltage (at rated voltage)	8-20	8-20	8-20	8-20	10-19	10-19	
	AC Voltage (at +10% to -20%)	6-25	6-25	6-25	6-25	7-25	7-25	
	DC Voltage (at rated voltage)	40-50	40-50	40-50	40-50	40-65	40-65	
	DC Voltage (at +10% to -20%)	35-65	35-65	35-65	35-65	35-70	35-70	
	AC/DC Module (at rated voltage)	-	-	-	-	-	-	
	AC/DC Module (at +10% to -20%)	-	-	-	-	-	-	
Switching Delay OFF (ms)	AC Voltage (at rated voltage)	6-13	6-13	6-13	6-13	5-25	5-25	
	AC Voltage (at +10% to -20%)	6-13	6-13	6-13	6-13	5-25	5-25	
	DC Voltage (at rated voltage)	30-60	30-60	30-60	30-60	40-65	40-65	
	DC Voltage (at +10% to -20%)	30-60	30-60	30-60	30-60	40-65	40-65	
	AC/DC Module (at rated voltage)	-	-	-	-	-	-	
	AC/DC Module (at +10% to -20%)	-	-	-	-	-	-	
Maximum Operations per Hour	AC Voltage (No Load)	9000	9000	9000	9000	9000	9000	
	AC Voltage (Rated Load -AC1, AC3)	1200	1200	1200	1200	1200	1200	
	AC Voltage (Rated Load -AC4)	360	360	360	360	360	360	
	DC Voltage (No Load)	3600	3600	3600	3600	3600	3600	
	DC Voltage (Rated Load -AC1, AC3)	1200	1200	1200	1200	1200	1200	
	DC Voltage (Rated Load -AC4)	360	360	360	360	360	360	
	AC/DC(Module) Voltage (No Load)	-	-	-	-	-	-	
	AC/DC(Module) Module (Rated Load -AC1, AC3)	-	-	-	-	-	-	
	AC/DC(Module) Module (Rated Load -AC4)	-	-	-	-	-	-	
	AC/DC(Module) Module (Rated Load -AC4)	-	-	-	-	-	-	
Mechanical Life (millions of Operations)		20	20	20	20	20	20	
Aux. Contacts Std Product	Rating A600, Q300	1NO (Built-in)	1NO (Built-in)	1NO (Built-in)	1NO Front	1NO (Built-in)	1NO Front	
Aux. Contacts	Maximum Number of Aux. Contacts	4	4	4	4	6	6	
	Maximum Aux. Block Configuration	4 front or 1 side-mount each side	4 front or 1 side-mount each side	4 front or 1 side-mount each side	4 front or 1 side-mount each side	4 front plus 1 side or 2 front plus 1 side mount each side	4 front plus 1 side or 2 front plus 1 side mount each side	

