

Time Relays

MCB - SER - ERTC - SSR - DG Series



SER-Y/U



DG-60



MCB-20



MCB-25



MCB-9



ERTC-01

PRODUCT SELECTION TABLE

Product Code	Time	ON Delay (Er)	OFF Delay (Em)	OFF Delay with Control Input (R)	ON Delay with Control Input (Es)	Single shot leading edge (Ts) with control input	Single shot trailing edge (Ta) with control input	Symmetric Flasher (Ef)	Control Input	ON Delay with Control Input Leading Edge	OFF Delay with Control Input Trailing Edge	Single Shot Leading and Trailing Edge with Control input Pulse	ON Flasher	OFF Flasher	Down-timer	Star-Delta	Left-Right	Power OFF Delay	Pcs / Box
ERT-01-72	Multi-function T. Relay	1 sec - 100 Hours	●	●					●				●	●	●				16
ERTC-01-DIN	Multi-function T. Relay	1 sec - 100 Hours	●	●					●				●	●	●				16
MCB-30	Time Relay	2-30 sec	●																28
MCB-60	Time Relay	4-60 sec	●																28
MCB-7	Time Relay	0.1 sec - 30 Hours	●	●															28
MCB-8	Time Relay (Fine Tuning)	0.1 sec - 999 min	●	●															28
MCB-9	Time Relay	0.5 sec - 30 Hours	●	●									●	●					28
MCB-15	4 functions T. Relay	0,05 sec - 100 Hours	●	●	●			●	●										10
MCB-20	7 functions T. Relay	0.1 sec - 100 Hours	●	●	●	●	●	●	●										10
MCB-25	LCD 8 functions T. Relay	0.1 sec - 999 Hours	●	●	●			●	●	●	●	●	●	●	●				10
SER-YU	Star - Delta Relay	(λ/U) 20-500 msec (λ) 1-60 sec														●			16
SSR-2X	Right - Left Relay	0,1 sec - 60 Hours															●		28
DG-10	Time Relay	0.6 sec - 10 min																●	16
DG-60	Time Relay	0,1 sec - 60 min																●	16
EF-10	Flasher Relay	1 - 10 sec / 0.5 sec											●						10
EF-10T	Flasher Relay	1 - 10 sec / 0.5 sec											●						10
ERB-50	Dishwasher Relay	Washing 30, 60, 90, 120,180 sec,Waiting 3sec, Rinsing 1-30 sec																	20

SPECIFICATIONS

	MCB-15	MCB-20	MCB-25	EF-10	MCB-7/8/9	MCB-30	MCB-60	SSR-2X	ERB-50	ERT-01	ERTC-01	SER-Y/U	DG-10/60	EF-10T	
ENCLOSURE															
Dimensions	PK27		PK22					PK21		PR18	PK20	PK28		PK10	
Protection Class	IP40		IP20							IP40-IP20		IP20			
Weight	0.1kg/pcs						0.1kg/pcs	0.3kg/pcs	0.25kg/pcs		0.1kg/pcs	0.3kg/pcs			
SUPPLY															
Operating Voltage	24-240 VAC/DC	12-240 VAC/DC	24-240 VAC/DC	230 VAC 24 VAC/DC	12-240 VAC/DC		230 VAC		230 VAC 110 VAC		230 VAC 24 VAC/DC	230 VAC	230 VAC	230 VAC	
Operating Range	for Un±%20(AC) ; for Un±%10(DC)														
Power Consumption	< 4 VA		< 8 VA					< 4 VA	< 3 VA	< 8 VA		< 3 VA			
OUTPUT															
Repeat Accuracy	±5ms.		±%0,5		±%0,1										
Reset Time	100 ms.		< 150 ms.				100 ms.	80 ms.		120 ms.		-			
Output Contact	1 CO; 8A, 2000 VA, cosk=1						2 CO; 10A, 2500VA, (cosk=1)		1 CO; 8A, 2000VA, (cosk=1)		2 NO; 5A,1250VA (cosk=1)		1 CO; 16A,4000VA (cosk=1)		Triyac; 8A,600VA
AMBIENT CONDITIONS															
Ambient Temperature; Humidity	-5 / +55 C ; %85		-10 / +55 C ; %85		-5 / +55°C ; %85										
CONNECTIONS															
Mounting	Rail Mounting, Terminal with screw														
Connection Types	Single phase 2 wires														

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Functions

OFF Delay (Em) [MCB-15 & MCB-20 & MCB-7/8/9]



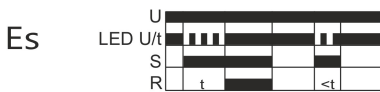
ON Delay (Er) [MCB-15 & MCB-20 & MCB-7/8/9/30/60]



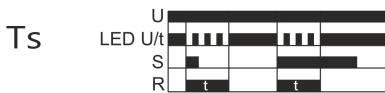
OFF Delay with control input (R) [MCB-15 & MCB-20]



ON Delay with control input (Es) [MCB-20]



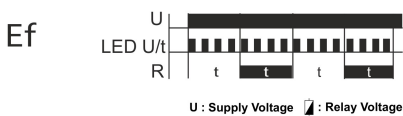
Single shot leading edge with control input (Ts) [MCB-20]



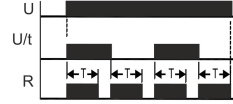
Single shot trailing edge with control input (Ta) [MCB-20]



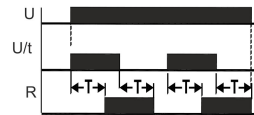
Flasher (Ef) [MCB-15 & MCB-20]



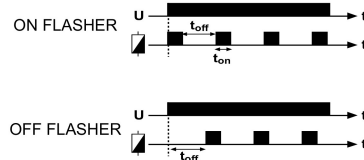
Single Shot Leading and Trailing Edge with control Input (MCB-25)



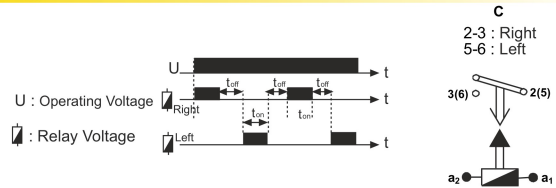
ON Delay with Control Input Leading Edge OFF Delay with Control Input Trailing Edge (MCB-25)



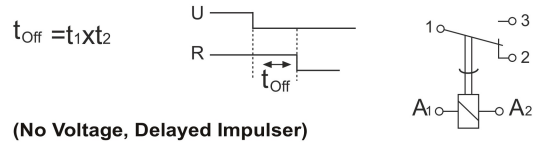
Flasher



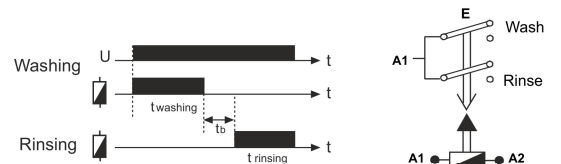
Right-Left Function (SSR-2X)



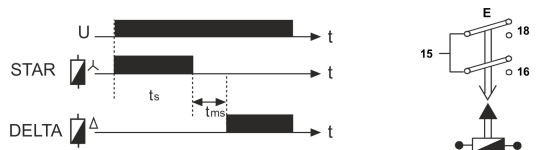
Power OFF Delay (DG-10/60)



Washing Machine Relay (ERB-50)



Star-Delta Function (SER-YU)

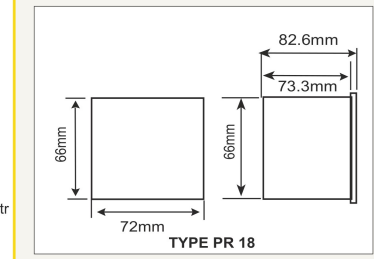
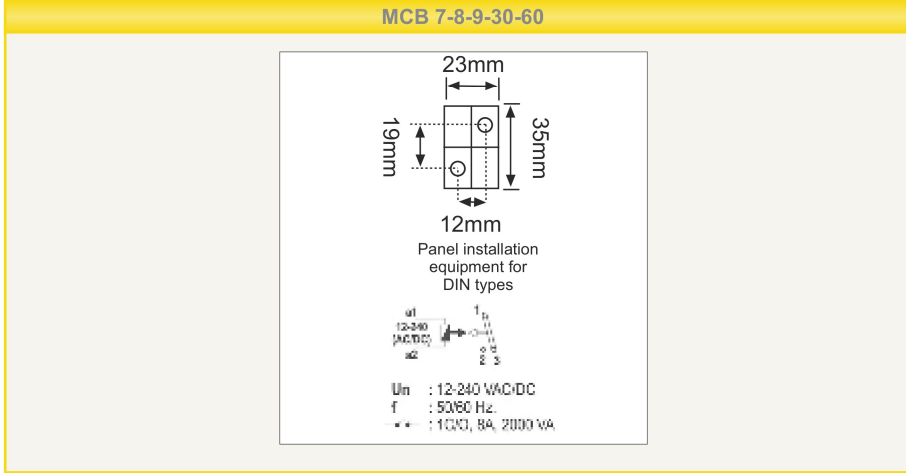
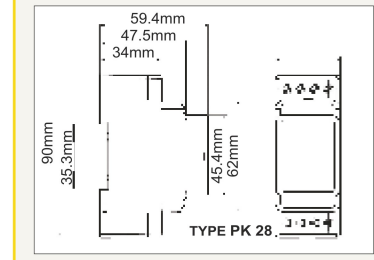
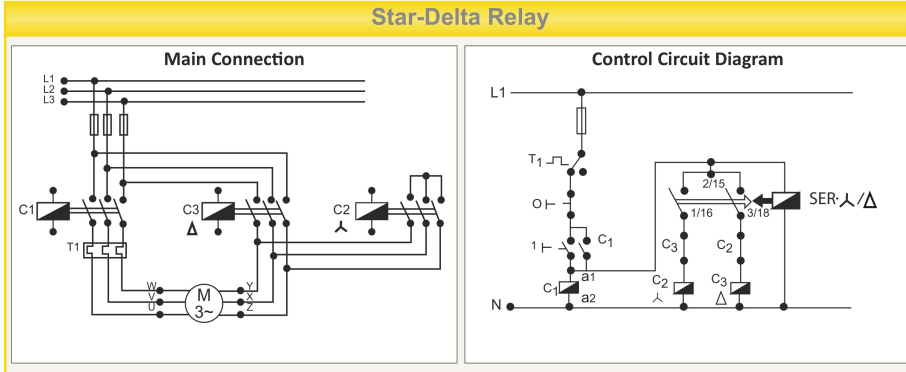
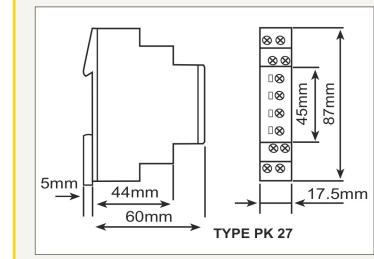
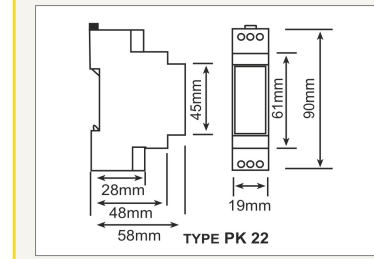
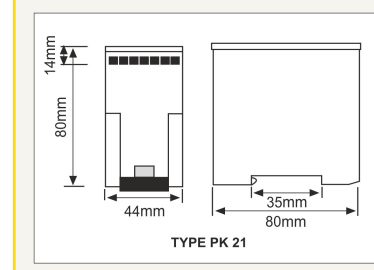
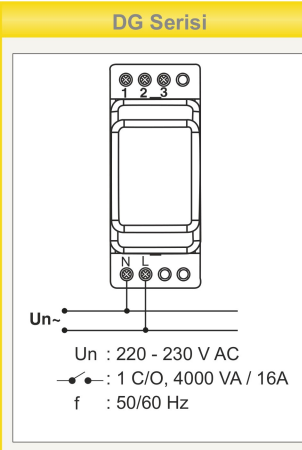
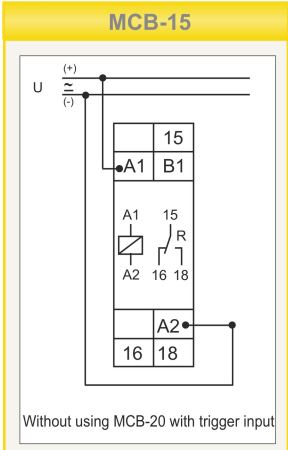
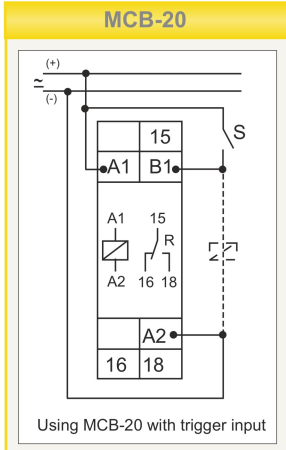
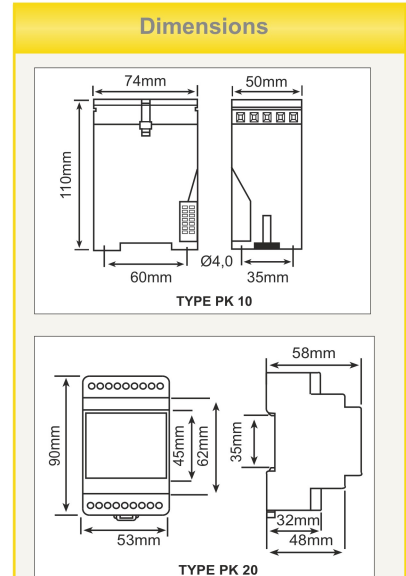
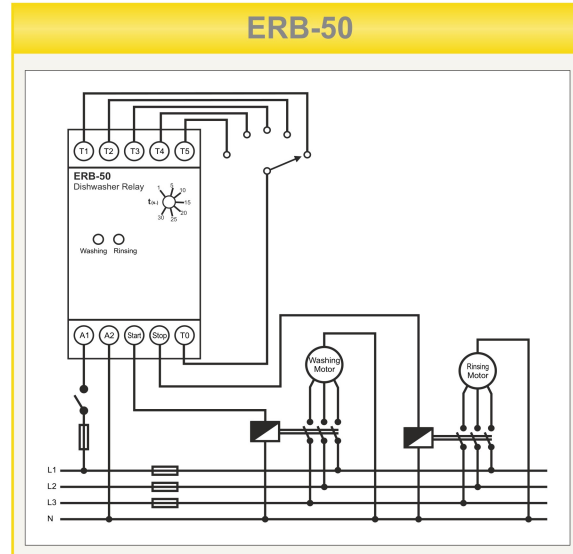
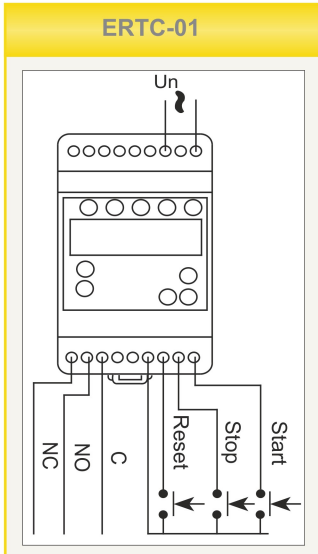


* 24 VAC/DC supply of SER - Y/U is applied between A2-A3



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Connection diagrams are given for reference. Please always check the latest user manual given with product or download from www.entes.com.tr