

Automotive Parts

AFTERMARKET CATALOGUE

RELAYS, FLASHERS AND CONTACTORS.

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LED Flasher Unit

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Our led flasher units work in ultra low wattage circuits using only LED ciusters.

The use of LEDs instead of traditional bubs is spreading quickly in the automotive market because LEDs have a long lifespan and are also energy saving devices. Traditional flasher Units cannot work in LED circuits therefore a complete range of ultra low wattage LED flasher Units have been introduced covering a range from 0.02W up to 60W.

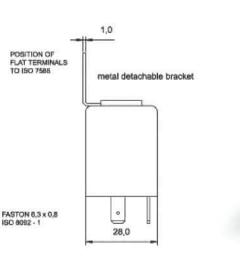
MERIT No.	DESCRIPTION	VOLTAGE. (VOLT)	WATT	PINS	APPLICATIONS	PIN CONFIGURATION	TECHNICAL CONFIGURATION
MT20-022123	LED FLASHER UNIT	12	0-30W	2	Sec.	5- <u>L</u> 48a 45[]+ 2	
MT20-022333	LED FLASHER UNIT	12	0-30W	3		5 <u></u> +[]49 405[]L 1 2	
MT20-022433	LED FLASHER UNIT	12	0-30W	3		5 <u>4</u> 31 40 + 1 2	
MT20-022243	LED FLASHER UNIT	12	0-30W	4		+	
MT20-024434	LED FLASHER UNIT	24	0-40W	3		5-L 499 - []31 40[] - 3 2	
MT20-024244	LED FLASHER UNIT	24	0-40W	4		5. <u>₽</u> •∬ - 1 c 1 2	



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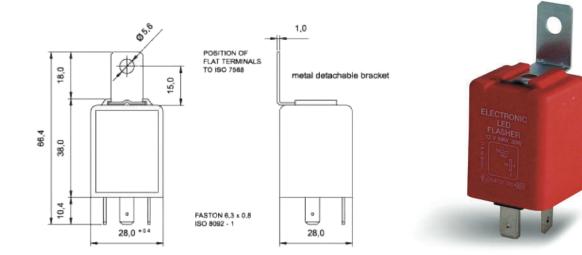


LED Flasher Unit whit Diagnostic

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Regulations require that the vehicle warns the driver when an indicator lamp has failed by increasing the frequence of the flashing indication. This is known as "Bulb failure Warning" and because of this we have introduced a complete range of LED flasher Units with diagnostics that work not only in LED circuits but also in hybrid circuits (bulbs + LEDs).



LET FLASH UNIT WITH DIAGNOSTIC (FOR LED CIRCUITS ONLY)

MERIT No.	V DESCRIPTION	VOLTAG (VOLT)	GE WATT	PINS	APPLICATIONS	CONFIGURATION	PIN C O N F I O	TECHNICAL G U R A T I O N
MT20-032431	LED FLASHER UNIT WITH DIAGNOSTIC	12	MAX 10W	3	886 	LED CLUSTER 1W LED PILOT MAX 0,5W	6-10 - [] 21 - 40[] - 1 - 2	
MT20-032541	LED FLASHER UNIT WITH DIAGNOSTIC	12	MAX 10W	4		LED CLUSTER 1W PILOT: LAD 0,14W LAMP 0,55W BUZER	5 c + [149 468]- 1 3 [] 31 ²	

HIBRID LET FLASH UNIT WITH DIAGNOSTIC FOR CIRCUITS WITH BUBLS AND LED CLUSTERS

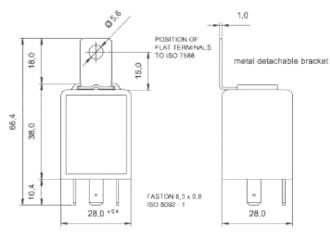
MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	WATT	PINS	APPLICATIONS	CONFIGURATION	PIN C O N F I G	TECHNICAL URATION
MT20-032446	HYBRID LED FLASHER UNIT WITH DIAGNOSTIC	12	MAX 60W	4		LED CLUSTER 4W &/or 21W BULBS PILOT 5W	5- <u>1</u> -]]37 - 40]]+ 1 - 2	





Electronic Flasher Unit.

This is an electronic device with an electric pulsating output for automotive use with a rated voltaje of either 12ν or 24ν





MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	WATT	PINS	BULB FAILURE WARNING	APPLICATION	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-012129	FLASHER UNIT WITHOUT POLARITY	12	180	2	NO		5 <u>×</u> . 2	ିକ୍କ କରୁ ହିନ୍ଦୁ କରୁ
MT20-012239	FLASHER UNIT WITHOUT POLARITY	12	180	3	NO		5	<u>م</u>
MT20-012540	FLASHER UNIT	12	10-200	4	NO		5- <u>C</u> • • • • • • + 1 3 31	
MT20-012657	FLASHER UNIT	12	140	5	YES		5-9- - 4-31-9- 14- 3 12	
MT20-012435	FLASHER UNIT	12	42-92	3	YES		5 400 1 21 40 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MT20-012245	FLASHER UNIT	12	42-92	4	YES			
MT20-012642	FLASHER UNIT C2	12	6x21	4	YES		5 400 1 31 40 1 3 1 cz 2	640 666 666 666 670 120 120
MT20-014239	FLASHER UNIT WITHOUT POLARITY	24	180	3	NO		s≞ × ↓ 1 2	
MT20-014435	FLASHER UNIT	24	42-92	3	YES		5-100 • ∥ 37 49∥+ 1 2	
MT20-014245	FLASHER UNIT	24	42-92	4	YES			
MT20-014642	FLASHER UNIT C2	24	6x21	4	YES		5-1	0402 000

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Electronic Flasher Unit.

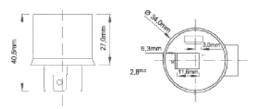
	DIAGRAM	
NOMINAL VOLTAGE	12V	24V
VOLTAGE RANGE	11V ÷ 14V	22V ÷ 28V
EXCITATION VOLTAGE	10 V	20 V
CURRENT ABSORPTION	170 mV	80 mV
FREQUENCY WITH BULBS	80-90 PER MINUTE	80-90 PER MINUTE
FREQUENCY WITH DEFECTIVE BULBS	200-220 PER MINUTE	200-220 PER MINUTE
WORKING	CONTINUOS	CONTINUOS
OPERATING TEMPERATURE	-40°C + 85°C	-40°C + 85°C
SERVICE LIFE	> 150 h. continues > 300 h. with cycles 15*0N 15*0FF	> 150 h. continuos > 300 h. with cycles 15"0N 15"0FF

APPLICATIONS	PINS	DIN	JAPAN.	SAE/BNA
	2		<u> </u>	 !
	3	± 482 ↓ - 31 44	$[\stackrel{+}{\downarrow}]$	
	4	⊥ _ 483 11 48 €		! <u>÷</u> !
	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<u>l</u>

APPLICATIONS			DIN JAPAN.		SAE/BNA				
	Battery	49	+49	+15	8	+	+	+	1
	Lamps (Swith)	49a	L49a	S54	L	L	C	COM	2
	Vehicie control lamp	С		к		Р	R	REP	5
	🔔 Earth	31	-31	-31	E	(-)	(-)	(-)	4
	Trailer control tamp	C2	C2	Ki		Cz	C2	R2	3

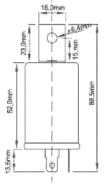
Thermic Flasher Unit.

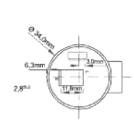
A thermic flasher unit is a non- electronic device that is used mainly in other vehicle applications. Thermic Flasher Units use a bi-matalic contact to créate a flashing on-off circuit thermic flasher units are available in 2 or 3 terminal variation.





MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	WATT	PINS	BULB FAILURE WARNING	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-042128	THERMIC FLASHER UNIT TYPE A	12	150	2	NO		
MT20-042238	THERMIC FLASHER UNIT TYPE A	12	150	3	NO		
MT20-044128	THERMIC FLASHER UNIT TYPE A	24	150	2	NO		<u> </u>
MT20-044238	THERMIC FLASHER UNIT TYPE A	24	150	3	NO		êê êê j





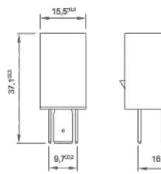


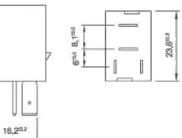
MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	WATT	PINS	BULB FAILURE WARNING	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-052128	THERMIC FLASHER UNIT TYPE B	12	150	2	NO		0 0 12V
MT20-052238	THERMIC FLASHER UNIT TYPE B	12	150	3	NO		
MT20-054128	THERMIC FLASHER UNIT TYPE B	24	150	2	NO		20x 24V
MT20-054238	THERMIC FLASHER UNIT TYPE B	24	150	3	NO		



Micro Relay

This is a remote control device for automotive applications. Control voltaje can be 12V or 24V. This device is smaller in dimensions tan a Mini Relay and can handle nominal currents ranging from 10A to 25°.







MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	APPLICATION	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-702244	NORMALLY OPEN	12	25	4				20 50
MT20-712244	NORMALLY OPEN	12	25	4	With resistor			
MT20-722244	NORMALLY OPEN	12	25	4	With diode			20 50 + + + 1003
MT20-802254	CHANGE OVER	12	20/10	5)		20 50 04
MT20-812254	CHANGE OVER	12	20/10	5	With resistor	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
MT20-822254	CHANGE OVER	12	20/10	5	With diode			20 50 94 # +1003
MT20-704144	NORMALLY OPEN	24	10	4				
MT20-714144	NORMALLY OPEN	24	10	4	With resistor			
MT20-724144	NORMALLY OPEN	24	10	4	With diode		[]=:[]	20 50 + +1003
MT20-804154	CHANGE OVER	24	15/10	5		6.		20 50 04
MT20-814154	CHANGE OVER	24	15/10	5	With resistor	6		20 50 94 1003
MT20-824154	CHANGE OVER	24	15/10	5	With diode	.		20 50 04 # +1003

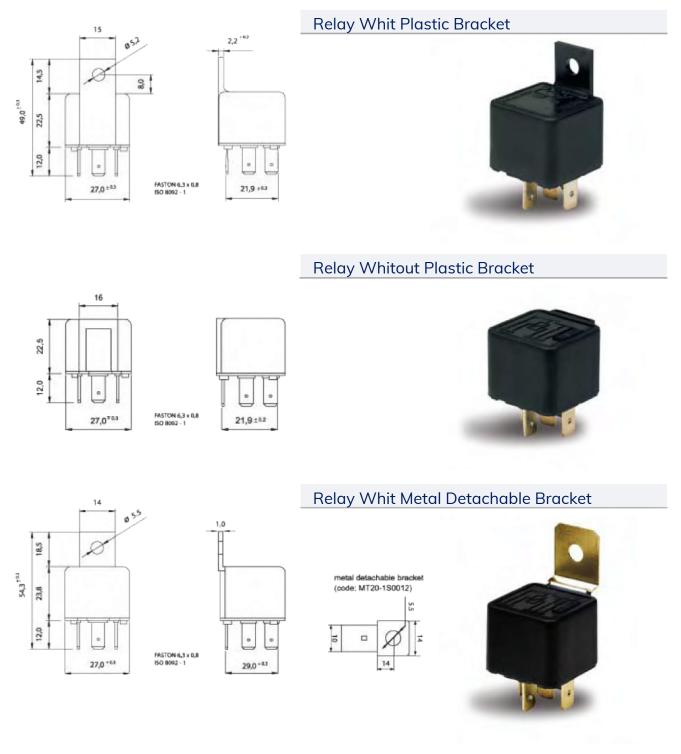


Micro Relay

HOMOLOGATION



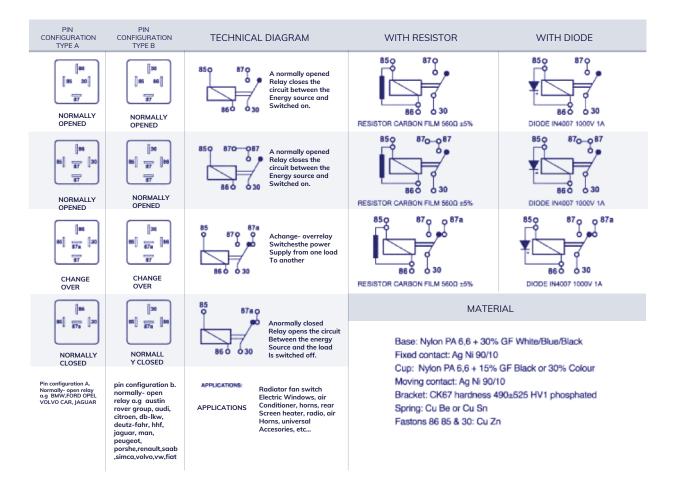
This is a remote control device for automive application. Control voltaje can be 12V or 24V. Every Relay can be supplied whit an optional resistor or diode on request. Every relay is supplied whitout a metal bracket that can be supplied on request (code: MT20-1S0012).





Mini Relay

	CHAR	ACTERISTI	CS				
NOMINAL VOLTAGE	6V	12V	24V	Change Over 12V	Change Over 24V		CHANGE
VOLTAGE DROP	100 mV		OVER RELAY				
PRESSURE ON CONTACTS	100 g						
EXCITATION VOLTAGE	4,5 V	9 V	18 V	10 V	20 V	(THE PARTY OF	
TENSION OF MISEXCITATION	1,5 V	2,5 V	5 V	2,5 V	5 V		NORMALLY OPEN RELAY TYPE A
COIL RESISTENCE	25±5%	70±5%	320±5%	70±5%	300±5%	1 all	
WORKING	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS		
OPERATING TEMPERATURE	~40°C + 85°C	-40°C + 85°C	-40°C + 85°C	-40°C + 85°C	-40°C + 85°C		NORMALLY OPEN RELAY
CONNECTION BOARD	DIN ISO 7588 ISO 7880		TYPE B				
DUTY CYCLES	500.000 cycles	500.000 cycles	500.000 cycles	500.000 cycles	500.000 cycles		





Mini Relay (homologated)

	MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
	MT20-102343	NORMALLY OPEN	в	12	30	4	WHIT PLASTIC BRACKET	[30 [m ss] 77	850 870
	MT20-102344	NORMALLY OPEN	в	12	30	4	WHITOUT BRACKET	[m] [m] [m] [m] [m]	
	MT20-102353	NORMALLY OPEN	в	12	30	5	WHIT PLASTIC BRACKET	(in) (in) (in) (in) (in) (in) (in)	850 870 087 560 030
	MT20-102354	NORMALLY OPEN	В	12	30	5	WHITOUT BRACKET	00 	
V CAR	MT20-502343	NORMALLY OPEN	A	12	30	4	WHIT PLASTIC BRACKET	[ms [ms = 20] 	850 870 860 030
12 V	MT20-502344	NORMALLY OPEN	A	12	30	4	WHITOUT BRACKET	[m [= 20] 27	
	MT20-502353	NORMALLY OPEN	A	12	30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (850 870 087 560 030
	MT20-502354	NORMALLY OPEN	A	12	30	5	WHITOUT BRACKET	() () () () () () () () () () () () () (
	MT20-202353	CHANGE OVER	в	12	20/30	5	WHIT PLASTIC BRACKET	[300 [30] [30] [30] [30] [30] [30] [30]	850 870 987a 0 00 860 0 30
	MT20-202354	CHANGE OVER	в	12	20/30	5	WHITOUT BRACKET	=[] [20 =[] [27 =[]	850 870 087a
	MT20-602354	CHANGE OVER	A	12	20/30	5	WHIT PLASTIC BRACKET	201 201 201 201 207	850 870 087a 0 0 860 0 30

MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-102453	NORMALLY OPEN	RMALLY OPEN B 12 40 5 WHIT PLASTIC BRACKET		() () () () () () () () () () () () () (850 870 087 560 030			
MT20-102454	NORMALLY OPEN	B	12	40	5	WHITOUT BRACKET	=[] [] ²⁰ =[] <u>37</u> [] ²⁰ 37	
MT20-102553	NORMALLY OPEN	в	12	50	5	WHIT PLASTIC BRACKET	[]20 20[]	850 870 087 660 030
MT20-102554	NORMALLY OPEN	B	12	50	5	WHITOUT BRACKET	() () () () () () () () () () () () () (

PINS n.30 and n.87 are6.35mm



Mini Relay (homologated)

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MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-102343	NORMALLY OPEN	в	12	30	4	WHIT PLASTIC BRACKET	[30 []m ss] 37	
MT20-102344	NORMALLY OPEN	в	12	30	4	WHITOUT BRACKET	[30 [35 30] 	850 870
MT20-102353	NORMALLY OPEN	в	12	30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (
MT20-102354	NORMALLY OPEN	B	12	30	5	WHITOUT BRACKET	() () () () () () () () () () () () () (
MT20-502343	NORMALLY OPEN	A	12	30	4	WHIT PLASTIC BRACKET	[]## []## 30[] #7*	850 870
MT20-502344	NORMALLY OPEN	A	12	30	4	WHITOUT BRACKET	[as 20] [37]	
MT20-502353	NORMALLY OPEN	A	12	30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (
MT20-502354	NORMALLY OPEN	A	12	30	5	WHITOUT BRACKET	[]am 	
MT20-202353	CHANGE OVER	В	12	20/30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (
MT20-202354	CHANGE OVER	В	12	20/30	5	WHITOUT BRACKET	() () () () () () () () () () () () () (850 870 087a
MT20-602354	CHANGE OVER	A	12	20/30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (850 870 087a 0 00 860 0 30

MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-102453	NORMALLY OPEN	В	12	40	5	WHIT PLASTIC BRACKET	[] 20 m[] <u>37</u> [] 20 <u>37</u>	850 870 087
MT20-102454	NORMALLY OPEN	В	12	40	5	WHITOUT BRACKET	[30 6] <u>57</u> [6 77	
MT20-102553	NORMALLY OPEN	в	12	50	5	WHIT PLASTIC BRACKET	[]	850 870 087 0 860 030
MT20-102554	NORMALLY OPEN	B	12	50	5	WHITOUT BRACKET	anij <u>er</u> er	850 B70 087 0 0 86 0 0 30

PINS n.30 and n.87 are6.35mm



Mini Relay (un-homologated)

Ч	MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
16 V C/	MT20-106341	NORMALLY OPEN	В	6	30	4	WHIT PLASTIC BRACKET	[]30 []31 - 49[] 	850 870
	MT20-106351	NORMALLY OPEN	8	6	30	5	WHITOUT BRACKET		850 870

	MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
2 V CAR	MT20-102341	NORMALLY OPEN	В	12	30	4	WHIT PLASTIC BRACKET	[]30 []35 45[] 177	850 870
12 V	MT20-102342	NORMALLY OPEN	в	12	30	4	WHITOUT BRACKET	[an] [=====[] 	850 870
	MT20-102351	NORMALLY OPEN	в	12	30	5	WHIT PLASTIC BRACKET	300 =[<u>377</u> [355 <u>377</u>	
	MT20-102352	NORMALLY OPEN	в	12	30	5	WHITOUT BRACKET	100 110 110 110 110 110 110 110	850 870 087
	MT20-502341	NORMALLY OPEN	A	12	30	4	WHIT PLASTIC BRACKET	(120) (12) (12) (12) (12) (12) (12) (12) (12	
	MT20-502342	NORMALLY OPEN	A	12	30	4	WHITOUT BRACKET	[]20 [] [] [] [] [] [] [] [] [] [] [] [] [] [850 870 087
	MT20-502351	NORMALLY OPEN	A	12	30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (
	MT20-502352	NORMALLY OPEN	A	12	30	5	WHITOUT BRACKET	() () () () () () () () () () () () () (
	MT20-202351	CHANGE OVER	8	12	20/30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (850 870 087a 0 00 860 030
	MT20-202352	CHANGE OVER	B	12	20/30	5	WHITOUT BRACKET	()20 20 () ()27 27 27	850 870 0 873
	MT20-602352	CHANGE OVER	A	12	20/30	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (850 870 087a 0 00 860 030



Mini Relay (un-homologated)

	MERIT No.	DESCRIPTION	TYPE	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
RUCK	MT20-104241	NORMALLY OPEN	В	24	20	4	WHIT PLASTIC BRACKET	[30 [30 44] 77	850 870
24 V TRUCK	MT20-104242	NORMALLY OPEN	в	24	20	4	WHITOUT BRACKET	[20 [45 44]] T	850 870
2.	MT20-104251	NORMALLY OPEN	B	24	20	5	WHIT PLASTIC BRACKET	[]20 []] []27 []27 []29 []29 []29	850 870-087
	MT20-104252	NORMALLY OPEN	в	24	20	5	WHIT PLASTIC BRACKET	() () () () () () () () () () () () () (850 870 087
	MT20-504241	NORMALLY OPEN	A	24	20	4	WHITOUT BRACKET	[] []] [] []] [][] []]	850 870 087
	MT20-504242	NORMALLY OPEN	A	24	20	4	WHIT PLASTIC BRACKET	[]** *[] []** 	
	MT20-504251	NORMALLY OPEN	A	24	20	5	WHIT PLASTIC BRACKET	[100 101] 101 101 101 101 101 101 101 101 101 101	850 870 087
	MT20-504252	NORMALLY OPEN	A	24	20	5	WHITOUT BRACKET	() () () () () () () () () () () () () (850 870 087
	MT20-204251	CHANGE OVER	B	24	10/20	5	WHIT PLASTIC BRACKET	[30] [4] [7] [7]	
	MT20-204252	CHANGE OVER	в	24	10/20	5	WHITOUT BRACKET	[30 []]] []]] []]] []]] []]]	
	MT20-604252	CHANGE OVER	A	24	10/20	5	WHIT PLASTIC BRACKET	Implies Implies <td< th=""><th></th></td<>	

Merit Standart Packaging

Products can be supplied either in bulk packaging or in merit standart boxes, mínimum quality ordered should correspond to the quantity of one merit Standart Box or a multiple of these quantities Any other quantity ordered will be changed accordingly.



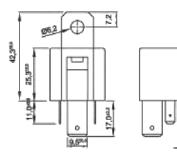


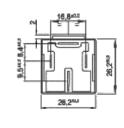
Heavy Duty Relay

This is a remote control device for automotive applications. Control voltaje can be 12V or 24V. The heavy duty relay can control larger nominal currents than a standard mini relay ranging from 30A to 80A. Every relay can be supplied with an optional resistor or diode on request. Every relay is supplied without a metal bracket thet can be supplied on request (code: MT20-1S0012)

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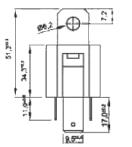
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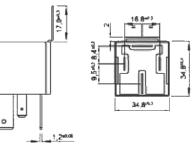






MERIT No.			VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM
MT20-402544 [°]	NORMALLY OPEN	В	12	50	4	WHITOUT BRACKET	 	850 870
MT20-402744 [*]	NORMALLY OPEN	в	12	70	4	WHITOUT BRACKET	87 86 85 30	
MT20-402844 [*]	NORMALLY OPEN	В	12	80	4	WHITOUT BRACKET	 [] ==[] [20	850 870
MT20-202454	CHANGE OVER	B	12	30/40	5	WHITOUT BRACKET	() () () () () () () () () () () () () (850 870 087







MERIT No.	MERIT No. DESCRIPTION TYPE VOLTAGE (VOLT)		INTENSITY MAX AMP	PINS	ADITIONAL INFO	PIN CONFIG.	TECHNICAL DIAGRAM	
MT20-404544°	NORMALLY OPEN	B	24	50	4	WHITOUT BRACKET	 []==0[] []20	850 870
MT20-404744	NORMALLY OPEN	в	24	70	4	WHITOUT BRACKET	 [] asss[] [] ao	850 870
MT20-204454	CHANGE OVER	в	24	30/40	5	WHITOUT BRACKET	(150) (151) (152) (150)	

PINS: n.30 and n.87are 9.5mm

PINS for MT20-204454 and MT20-202454: n.30 and n.87 are 6.35mm

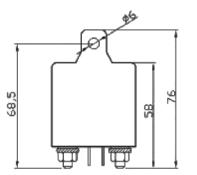
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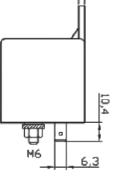
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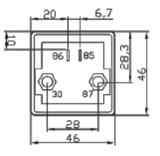
Extra Heavy Duty Relay

This is a remote control device for automotive applications. Control voltaje can be 12V or 24V. The Extra heavy duty relay can control larger nominal currents than a Standard heavy duty ranging from 100A to 200A.





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(Dimensions vary according to the nominal current of the relay)

MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADITIONAL	PIN	TECHNICAL
MT20-404843	NORMALLY OPEN	24	80	4	WHIT PLASTIC BRACKET		85 0
MT20-404043	NORMALLY OPEN	24	100	4	WHIT PLASTIC BRACKET		85 6 7 7 7 7 7 7 7 7 7 7
MT20-402643	NORMALLY OPEN	12	140	4	WHIT PLASTIC BRACKET		85 0
MT20-402943	NORMALLY OPEN	12	200	4	WHIT PLASTIC BRACKET		85



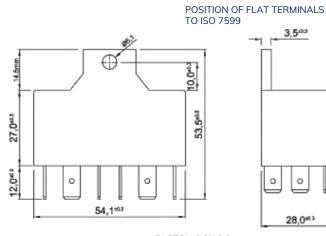


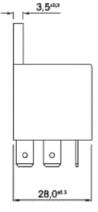
Double Relay

HOMOLOGATION

This is a doublé remote control device for automotive applications. Control voltaje can be 12V or 24V. Every relay can be supplied with an optional resistor or a diode on request

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MERIT No.	DESCRIPTION	TYPE	VOLTAGE	INTENSITY MAX	PINS	ADDITIONAL INFORMATION	PIN CONFIGURATION	TECHNICAL DIAGRAM
MT20-142383	NORMALLY OPEN	в	(VOLT) 12	амр 2х30	2x4	WHIT PLASTIC BRACKET		
MT20-142303	NORMALLY OPEN	в	12	2x30	2x5	WHIT PLASTIC BRACKET	$\begin{bmatrix} \mathbf{n} \\ \mathbf{n} \end{bmatrix} \frac{\mathbf{n}}{\mathbf{n}} \begin{bmatrix} \mathbf{n} \\ \mathbf{n} \end{bmatrix} \frac{\mathbf{n}}{\mathbf{n}} \begin{bmatrix} \mathbf{n} \\ \mathbf{n} \end{bmatrix} \frac{\mathbf{n}}{\mathbf{n}}$	
MT20-144283	NORMALLY OPEN	в	24	2x20	2x4	WHIT PLASTIC BRACKET		850 870 850 870 0 860 030 860 030
MT20-144203	NORMALLY OPEN	в	24	2x20	2x5	WHIT PLASTIC BRACKET	$\begin{bmatrix} \mathbf{a} \\ \mathbf{a} \\ \mathbf{a} \end{bmatrix} \frac{\mathbf{a}}{\mathbf{a}} \begin{bmatrix} \mathbf{a} \\ \mathbf{a} \end{bmatrix} \frac{\mathbf{a}}{\mathbf{a}} \begin{bmatrix} \mathbf{a} \\ \mathbf{a} \end{bmatrix} \frac{\mathbf{a}}{\mathbf{a}}$	
MT20-142483	NORMALLY OPEN	в	12	2x40	2x4	WHIT PLASTIC BRACKET	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	850 870 850 870 860 030 860 036
MT20-142403	NORMALLY OPEN	8	12	2x40	2x5	WHIT PLASTIC BRACKET	$\begin{bmatrix} \mathbf{x} \\ \mathbf{x} \\ \mathbf{x} \end{bmatrix} \begin{bmatrix} \mathbf{x} \\ \mathbf{x} \end{bmatrix} \begin{bmatrix} \mathbf{x} \\ \mathbf{x} \end{bmatrix} \begin{bmatrix} \mathbf{x} \\ \mathbf{x} \end{bmatrix}$	
MT20-144383	NORMALLY OPEN	в	24	2x30	2x4	WHIT PLASTIC BRACKET	[m] [m] [m] [m] [m] [m] [m] [m] [m] [m]	
MT20-144303	NORMALLY OPEN	8	24	2x30	2x5	WHIT PLASTIC BRACKET		

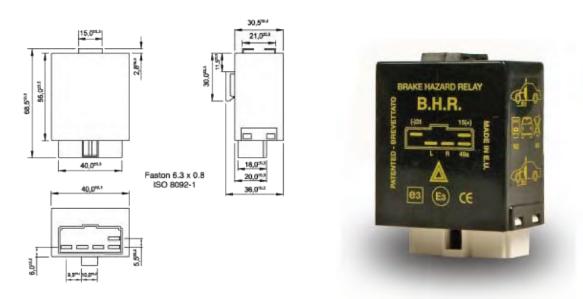


Reverse Hazard Relay (BHR)

A safety devide that measure the deceleration of a vehicle under bracking. In the event of severe or emergency braking conditions the BHR will activate the vehicle Hazard Warning Lights, warning other vehicles approaching from behind of a potential colision hazard.

HOMOLOGATION

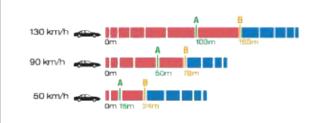




MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	PINS	APPLICATIONS	CONFIGURATION PIN	TECHNICAL DIAGRAM FOR 12V & 24V
MT20-070112	BRAKE HAZARD RELAY	12	5	~ <u>~</u> >	(471 15(+) L R 49a	
MT20-070124	BRAKE HAZARD RELAY	24	5		()01 18(+) L R 40s	

The BHR Works by automatically switching on the Hazard Warning Lights when the vehicle has braked severely in an emergency situation. The Hazard Warning Lights then continue to flash after the driver has relased the brake pedal. This will warn approaching vehicles from behind of an impending danger of a stationary or slow moving vehicle in front and help prevent a rear collision. The BHR will turn off the Hazard Warning Lights and revert back to its normal state after 10 seconds. Normal functioning of the Hazard Warning Lights in not affected by the BHR.





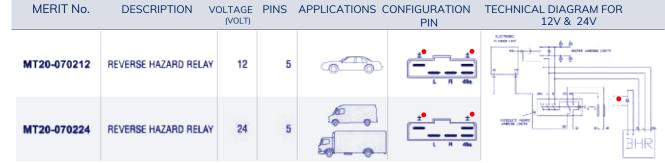
- A. Optimum Stipping distance for a 1000kg vehicle
- B. Emergency stopping distance limit were the BHR will BHR will not function (normal breaking)
- Emergency stopping distance (the BHR intervenes) Normal stipping distance (the BHR will not intervene)

19

Reverse Hazard Relay (RHR)

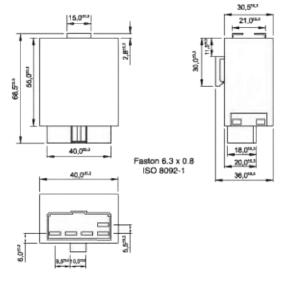
HOMOLOGATION

This is an electronic device that operates the vehicles Hazard Warning may be combined with the audible back – up alarm unit.



Reverse tail lights.

Lights When reverse gear is selected. it is the perfect safety device for trucks and busses. It provides a highly effective visual warning that (Codes MT20-070412 or MT20-070424).







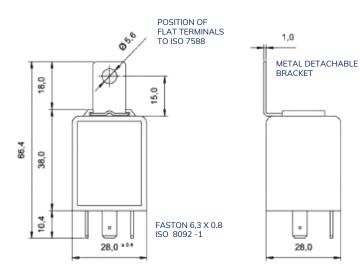


Reverse Alarm Relay (RHR)

HOMOLOGATION

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This is an electronic device whit electronic pulsating output for signal alarm used when reversing. Control voltaje car be either 12V or 24V





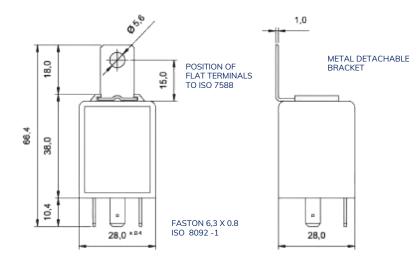
MERIT No.	DESCRIPTION	PINS	VOLTAGE (VOLT)	ADITIONAL INFORMATION	CONFIGURATIO PIN	N TECHNICAL DIAGRAM
MT20-070412	RELAY For back up alarm	4	12	Metal detachable bracket		
MT20-070424	RELAY For back up alarm	4	24	Metal detachable bracket	- + -	

TECHNICAL CHARACTERISTICS										
NOMINAL VOLTAGE	12V	24 V	CYCLE FREQUENCY	80±5 PER MINUTE	80±5 PER MINUTE					
NOMINAL CURRENT	30 Amp	30 Amp	WORKING	INTERMITTANCE	INTERMITTANCE					
EXCITATION VOLTAGE	9 V	18 V	PERATING TEMPERATURE	-40°C + 85°C	-40°C + 85°C					
TENSION OF MISEXCITATION	2,5 mV	5 mV	CONNECTION BOARD	DIN ISO 7588 ISO 7880	DIN ISO 7588 ISO 7880					
CURRENT ABSORPTION	170 mV	80 mV	SOUND LEVEL	> 98 d8 - 30 cm	> 98 dB - 30 cm					



Timer Relay (on-delay)

This is an electronic device that operates in the same way as a standard relay with the difference that it delays switching. The range of the time delay can vary between 1 second to 60 minutes.





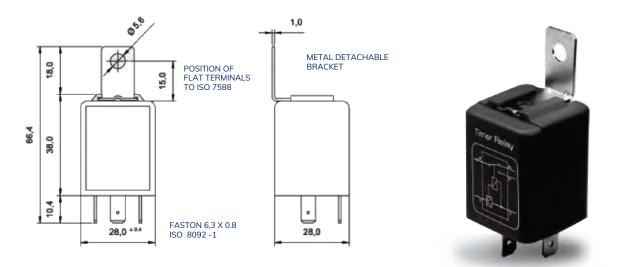
MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	TIME DELAY	CONFIGURATION PIN	TECHNICAL DIAGRAM
MT20-902002	TIMER RELAY	12	2,5 sec	1 3 2 + 1 - 1 5	
MT20-902004	TIMER RELAY	12	4 sec		30 87.
MT20-90200F	TIMER RELAY	12	15 sec	1 3 2 + 2 2 5 5	
MT20-902019	TIMER RELAY	12	25 sec	1 3 2 + 4 4 5	15
MT20-902000	TIMER RELAY	12	ON REQUEST		
MT20-904004	TIMER RELAY	24	4 sec		
MT20-90400F	TIMER RELAY	24	15 sec		87a (4) 87 (5)
MT20-90403C	TIMER RELAY	24	60 sec	1 3 2 ∗ 1 4 1 5 − −	5 (1) DY
MT20-904000	TIMER RELAY	24	ON REQUEST		

According to IP54 AND EMC



Timer Relay (on-delay)

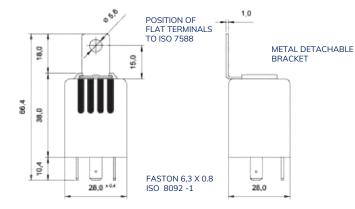
This is an electronic device that operates in the same way as a standard relay with the difference that it changes state immediately when energized and returns to its original state after a pre determined time delay. The range of the time delay is set by the Factory to customers specifications.



MT20-912000DROP-OUT RELAY12REQUEST $\begin{bmatrix} 1 & 3 \\ -1 & -1 $	MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	TIME DELAY	CONFIGURATION PIN	TECHNICAL DIAGRAM
MT20-914000 DR0P-OUT RELAY 24 REQUEST	MT20-912000	DROP-OUT RELAY	12	ON REQUEST	1 - 1	
15 (1) OV	MT20-914000	DROP-OUT RELAY	24	ON REQUEST	1 a] 2 +] — ₅—	87 (5) +V 15 (1) 0 V

Lights Warnning Relay

This is an electronic device that gives an acoustic warning signal when the lights are on and the car doors are open. Control voltaje is 12V





MERIT No.	DESCRIPTION	PINS	VOLTAG (VOLT)	SOUND	APPLICATION	CONFIGURATION PIN	TECHNICAL DIAGRAM
MT20-070321	LIGHTS WARNING	3	12	>85 dB - 30 cm		5] 376 15] 1 2	
MT20-070322	LIGHTS WARNING	3	12	>85 dB - 30 cm	(French cars)	5 □ 1 31b 1 2	

Switch off Relay

This is an electronic device for automotive applications. Control voltaje is 12V only. This device is placed in line with the vehicles high beam supply, and changes the state of the contact when a voltaje is present. The contact of this device is used to opened the circuit that controls the rear fog lamps.

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Ş 3 e METAL DETACHABLE BRACKET CODE: (MT20-190012) 54,3 ^{t lu} 225 22 ы .

27,0-03





TECHNICAL DIAGRAM

MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	INTENSITY (MAX-AMP)	PINS	ADITIONAL INFO	CONFIGURATION PIN	[*5]
MT20-302334	Switch off relay for rear fog Light	12	30	3	Without Bracket	ai === a	

HOMOLOGATION





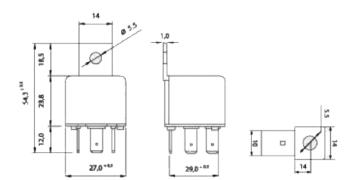


HOMOLOGATION

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Double Contact Relay

These are remote control devices for automotive use. Control voltage can be 12V or 24V. Pin configuration is according to ISO 7588. Every relay can be pupplied with an optional reistor or diode on request. Every relay is supplied without a metal bracket that can be supplied on request (Code: MT20-1S0012)





MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	INTENSITY MAX AMP	PINS	ADDITIONAL INFORMATION	PIN CONFIG	TECHNICAL DIAGRAM
MT20-152354	DOUBLE CONTACT RELAY	12	2x15	5	Without Bracket	= 100 = 375 37	
MT20-152454	DOUBLE CONTACT RELAY	12	2x20	5	Without Bracket	[10] [10] [10] [10] [10] [10] [10] [10]	
MT20-154254	DOUBLE CONTACT RELAY	24	2x10	5	Without Bracket	[10] [10] [10] [10] [10] [10] [10] [10]	
MT20-154354	DOUBLE CONTACT RELAY	24	2x15	5	Without Bracket	20 1	

Electronic Solid State Relay

Electronic relays offer many advantages such as;

- More efficient and improved performance.
- Increasedl ifespan.
- Smaller Dimensions.
- Reduce weight
- Reduction in Noise
- No Electromagnetic field and negligible influence.





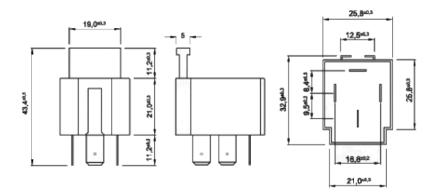


Relay With Fuse

HOMOLOGATION

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This is a remote control device for automotive applications. Control voltage can be 12V or 24V. This device has an in-built protection fuse that in line with the main cotacts.





MERIT No.	ERIT No. DESCRIPTION VOLTAGE (VOLT)		INTENSITY MAX PINS AMP		ADDITIONAL INFORMATION	PIN CONFIG	TECHNICAL DIAGRAM
MT20-132144	WITH FUSE	12	15	4	Without Bracket	100 m	
MT20-132344	WITH FUSE	12	30	4	Without Bracket	90) [90	
MT20-134144	WITH FUSE	24	15	4	Without Bracket		
MT20-134244	WITH FUSE	24	20	4	Without Bracket	[10] [10]	850 087

Relay Holder (Socket)

This is a remote control device for automotive applications. Control voltage can be 12V or 24V. This device has an in-built protection fuse that in line with the main cotacts.

	MERIT NO.	DESCRIPTION	DIMENSIONS	MERIT NO.	AVAILABLE FASTONS	DIMENSIONS
2 1	MT20-N00.001	RELAY HOLDER	4x2,8mm 5x6,3mm	MT20-FAS.10 MT20-FAS.30		6,3mm 4,8mm
	MT20-M00.001	MICRO-RELAY HOLDER	2x6,3mm 3x4,8mm	MT20-FAS.10 MT20-FAS.30		6,3mm 4,8mm
	MT20-S00.001	STARTER-RELAY HOLDER	2x9,5mm 3x6,3mm 4x2,8mm	MT20-FAS.20 MT20-FAS.10 MT20-FAS.30	-	9,5mm 6.3mm 4,8mm



Contactor

Main differences between contactors (100A up to 1000A) and traditional heavy duty relays



A contactor is an electromagnetic device with an effective working load ranging from 100A to 600A. Typical applications would be:

- Lift
- Construction vehicles
- Boats, Yachts and other Marine Vessels
- Electrically Powered Vehicles
- Trucks
- Industrial Vehicles
- Hybrid Duel Fuel Vehicles

A contractor works by closing/making or opening/braking an electric circuit. The control voltage is typically. 12V, 24V or 48V, Compared to traditional heavy duty relays. Contractors have superior performance, are safer and more reliable and consume much less energy.

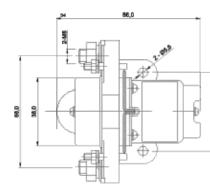
Primary differences

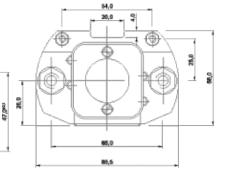
- Both contractors and traditional heavy-duty relays work according to the same electromagnetic principle. However they are very different in design. Traditional relays have a spring, connected to a contact with a small surface and cross sectional area, linked to an armature and copper bobbin. In this way the bobbin attracts the iron armature when a current flows, In comparison the Contactor has a spring connected to contacts with a large surface and cross sectional area and also a blogger core inside the copper bobbin. When current flows through he bobbin, it moves and either closes or opens the contacts.
- Contactors use a double section copper bobbin, so the closing and opening speed is much faster than a traditional heavy-duty relay. This reduces electrical arcing and also reduces overheating of the contacts. This helps reliability by reducing the wear and tear of the contacts and increases the lifespan of the contacts considerably.
- When the contacts of a contactor are closed, the first section of the copper bobbin is disconnected, and only the second section is active, therefore the power consumption is greatly reduced in comparison to the heavy-duty relay.
- Contactors are less prone to interruption caused by voltage fluctuations in the supply line. When the contactor is in the energised state the col requires much less current. In the event of a fluctuating supply voltage the contactor will tolerate a reduction of the operating voltage going down to 22V for 48V version, 13V for 24V version and 5,6 for 12V version, without interruption of the closed circuit.
- When compared to the traditional heavy duty relay, the contactor makes contact by means of a large strong metal section attached to two contacts with a large surface and

- Cross sectional area. Whereas in a heavy-duty relay, the making or braking is concentrated on one unique point, therefore having a much smaller contact area.
- The voltage drop of a contactor is smaller than that in a traditional heavy-duty relay. It can be measured as less than 60mV at very high currents .
- Contactors can make or break the electric circuit at a very high speed. This reduces the risk of contacts welding together, in traditional heavy-duty relays contact welding is a primary cause of premature relay failure.
- Contactors can withstand a current 30 times greater then the nominal value during making and/or braking of the circuit.
- Contactors can withstand voltags up to 1000V AC 50HZ, with no risk of failure. This is because the housing is made from a material that has high insulation properties called Bakelite.
- Contactors are designed and tested to perform over 1.000.000 cycles in nominal conditions.
- Contactors have a high resistance against humidity (up to 98%) and dust, and can operate in temperatures ranging between 25° C to + 140° C.
- Contactors are designed to resist huge shocks, of over 30m/s.
- Contactors conform to the following standards: -STANDARD JB2286-78 (for electric vehicles).
 -STANDARD JB3974-85 (for vehicles charged by batteries).



Contactor series MZJ





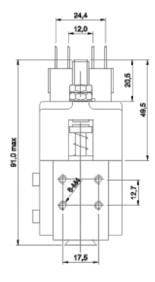
Series MZJ

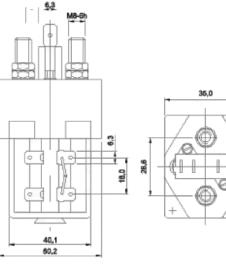
MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	MAX INTENSITY AMP	PINS	IP RATING	TECHNICAL DIAGRAM
MT20-932100	NORMALLY OPEN	12	100	4	IP00	
MT20-932200	NORMALLY OPEN	12	200	4	1900	
MT20-932600	NORMALLY OPEN	12	600	4	IP00	
MT20-934100	NORMALLY OPEN	24	100	4	IPOO	
MT20-934200	NORMALLY OPEN	24	200	4	IP00-	
MT20-934600	NORMALLY OPEN	24	600	4	1900	
MT20-938050	NORMALLY OPEN	48	50	4	IPOO	
MT20-938100	NORMALLY OPEN	48	100	4	IP00	
MT20-938200	NORMALLY OPEN	48	200	4	IP00	
MT20-938400	NORMALLY OPEN	48	400	4	IPDO	
MT20-938600	NORMALLY OPEN	48	600	4	IPOO	

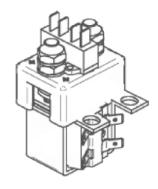
(Dimensions vary according to the nominal current capacity of the contactor)



Contactor series JCA







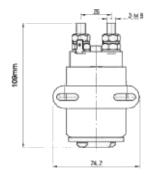
Series JCA

(Dimensions vary according to the nominal current capacity of the contactor)

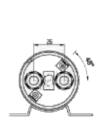
MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	MAX INTENSITY AMP	PINS	IP RATING	TECHNICAL DIAGRAM
MT20-924100	Normally open	24	100	8	IP00	
MT20-924200	Normally open	24	200	8	IPDO	
MT20-928100	Normally open	48	100	8	IP00	K
MT20-928200	Normally open	48	200	8	IP00	
MT20-928400	Normally open	48	400	8	IPOO	ABCD: Auxillary Terminals



Contactor series JCD





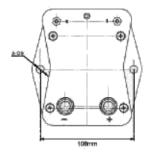


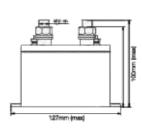


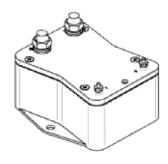
Series JCA

MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	MAX INTENSITY AMP	PINS	IP RATING TECHNICAL DIAGRAM	
MT20-944120	Normally open	24	120	4	IP53	o └ c
MT20-942140	Normally open	12	140	4	IP53	
MT20-942141	Normally open	12	140	4	IP66	10

Contactor series JCC







Series JCC

MERIT No.	DESCRIPTION	VOLTAGE (VOLT)	MAX INTENSITY AMP	PINS	IP RATING	TECHNICAL DIAGRAM
MT20-954600	Normally open	24	600	4	IPOO	C→→ C→ K2 → C 2 K1 → C 1

Page Index

MERIT No.	DESCRIPTION	PAGE	MERIT No.	DESCRIPTION	PAGE
MT20-012129	Electronic Basher Unit	6	MT20-102353	Relay 12V (homologated)	12
MT20-012239	Electronic Rester Unit	6	MT20-302354	Relay 12V (homologated)	12
MT20-012245	Electronic Resher Unit	6	MT20-102453	Relay 12V (homologated)	12
MT20-012435	Electronic Flasher Unit	6	MT20-102454	Relay 12V (homologated)	12
MT20-012540	Electronic Rasher Unit	6	MT20-102553	Relay 12V (homologated)	12
MT20-012642	Electronic Flasher Unit	6	MT20-102654	Relay 12V (homologated)	12
MT20-012657	Electronic Flasher Unit	6	MT20-104241	Relay 24V (un-homologated)	15
MT20-014239	Electronic Flasher Unit	6	MT20-104242	Relay 24V (un-homologated)	15
MT20-014245	Electronic Flasher Unit	6	MT20-104243	Relay 24V (a mologated)	13
MT20-014435	Electronic Flasher Unit	6	MT20-104244	Relay 24V (homologated)	13
MT20-014642	Electronic Pasher Unit	6	MT20-104251		15
		4	MT20-104252	Relay 24V (un-homologated)	15
MT20-022123 MT20-022243	LED Flasher Unit	4	MT20-104252	Relay 24V (un-homologated)	13
	LED Flasher Unit			Relay 24V (nomologated)	
MT20-022333		4	MT20-304254	Relay 24V (homologated)	13
MT20-022433	LED Rasher Unit	4	MT20-104353	Relay 24V (homologated)	13
MT20-024244	LED Rasher Unit	4	MT20-104354	Relay 24V (homologated)	13
MT20-024434	LED Rasher Unit	4	MT20-104453	Relay 24V (homologated)	13
MT20-032431	LED Flasher Unit with Diagnostic	6	MT20-104454	Relay 24V (homologated)	13
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MT20-044128	Thermic Rasher Unit (Type A)	B	MT20-134144	Relay with Fuse	25
MT20-044238	Thermic Rasher Unit (Type A)	8	MT20-134244	Relay with Fuse	26
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MT20-070124	Brake Hazard Relay (BHR)	19	MT20-144283	Double Relay	18
MT20-070212	Reverse Hazard Relay (RHR)	20	MT20-144303	Double Relay	18
MT20-070224	Reverse Hazard Relay (RHR)	20	MT20-144383	Double Relay	18
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MT20-070322	Lights Warning Unit	24	MT20-152454	Double Contacts Relay	25
MT20-070412	Reverse Alarm Relay (RAR)	21	MT20-154254	Double Contacts Reley	25
MT20-070424	Reverse Alarm Relay (RAR)	21	MT20-154354	Double Contacts Relay	25
MT20-102341	Relay 12V (un-homologated)	14	MT20-202351	Relay 12V (un-homologated)	14
MT20-102342	Relay 12V (un-homologated)	14	MT20-202352	Relay 12V (un-homologated)	14
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