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PHYSICAL REQUIREMENTS:

- PART IS PERMANENTLY MARKED (PRINTED OR MOLDED) WITH THE FOLLOWING ON THE RELAY COVER:
 - MANUFACTURING DATE CODE
 - MANUFACTURING PART NUMBER
 - COUNTRY OF ORIGIN
 - 24V ON ANY SURFACE
- INDIVIDUAL TERMINALS ARE IDENTIFIED WITH NUMBERS AS SHOWN IN TABLE 1.

TABLE 1

COIL	85(+), 86(-)
MOVEABLE (COMMON)	30
NORMALLY OPEN	87
NORMALLY CLOSED	87a

- COVER MATERIAL, BASE MATERIAL AND TERMINALS MATERIAL:
 - HOUSING MATERIAL: PA66 - COLOR BLACK
 - BASE MATERIAL: PA66 - COLOR BLACK
- CONTACT MATERIAL: SILVER TIN-OXIDE.
- NO HEXAVALENT CHROMIUM ON PARTS/COMPONENTS FROM MATERIALS OR PROCESSES.
- TERMINALS MUST BE FREE OF BURRS WHICH MAY BE DETRIMENTAL TO HANDLING, ASSEMBLY OR FUNCTION.
- TERMINALS WITH HOLES ARE PERMITTED.
- TERMINALS ARE PLATED WITH TIN.

PERFORMANCE REQUIREMENTS:

- FUNCTIONAL PERFORMANCE PARAMETERS SHALL BE AS IN TABLE 2:

TABLE 2

RELAY TYPE	TEMPERATURE	COIL RESISTANCE	*) OPERATE VOLTAGE	RELEASE VOLTAGE	N/O CONTACT VOLTAGE DROP AT 10A	C/O CONTACT VOLTAGE DROP AT 10A
	(°C)	(Ω)	(V)	(V)	(mV)	(mV)
MINI C/O	-40	209 ± 10%	12.2	3.1	15-200	20-250
	23	268 ± 10%	16	4		
	85	332 ± 10%	20	5		
	125	374 ± 10%	22.5	5.6		

*) VALUE WITHOUT COMPONENT IN PARALLEL (PARALLEL RESISTOR 1200 Ω)

- COIL INDUCTANCE 0.5 - 1.1 H
- ALL RELAYS MUST COMPLY WITH THE TE-DATASHEET:
 - OPERATING TEMPERATURE FROM -40° C TO ±125° C
 - RELAYS WILL BE CAPABLE OF SWITCHING THE FOLLOWING LOADS AT 23° C:
 - RESISTIVE LOAD 1100,000 CYCLES
 - NORMALLY OPEN, 30A/28VDC
 - RESISTIVE LOAD 1500,000 CYCLES
 - NORMALLY CLOSED, 10A/28VDC
 - LIMITING CONTINUOUSLY CURRENT (MAX.150° C AT TERMINALS)
 - 60A(NO)/45A(NC) AT 23° C
 - 40A(NO)/30A(NC) AT 85° C
 - 17A(NO)/12A(NC) AT 125° C

OTHER DATA:

- MECHANICAL ENDURANCE: >1x10⁷OPS.
- DIELECTRIC STRENGTH: 500Vrms
- CLIMATIC CYCLING WITH CONDENSATION, EN ISO 6988: 6 CYCLES, STORAGE 8/16h
- TEMPERATURE CYCLING, IEC 60068-2-14, Nb: 10 CYCLES, -40/+85° C(5° C/min)
- DAMP HEAT CYCLIC, IEC 60068-2-30, Db, Variant 1: 6 CYCLES, UPPER AIR TEMP.55° C
- DAMP HEAT CONSTANT, IEC 60028-2-3, Ca: 56 DAYS
- CORROSIVE GAS
 - IEC 60068-2-42: 10±2cm³/m³ SO₂, 10 DAYS
 - IEC 60068-2-43: 1±0.3cm³/m³ H₂S, 10 DAYS
- VIBRATION RESISTANCE (FUNCTIONAL), IEC 60068-2-6 (SINE SWEEP): 10 TO 500Hz > 5g
- SHOCK RESISTANCE (FUNCTIONAL), IEC 60068-2-27 (HALF SINE): 11ms > 20g
- DROP TEST, FREE FALL, IEC 60068-2-32: 1m ONTO CONCRETE
- COVER RETENTION
 - AXIAL FORCE: 150N
 - PULL FORCE: 150N
 - PUSH FORCE: 150N
- TERMINAL RETENTION
 - PULL FORCE: 100N
 - PUSH FORCE: 100N

THIS PART HAS RECEIVED A TRADEMARK EXEMPTION NUMBER: 13-000742A

Mounting position: any
Storage temperature: 95° C 2h
Flammability: UL94HB
Protection class: IP54
ELV / Rohs compliant

Voltage range: 16V - 32V
Min. load: 1A / 5V
Operate time at nominal voltage: typ 7ms
Release time at nominal voltage: typ 2ms
Bouncing time n/o-contact at nominal voltage: max. 1ms
Switch-off voltage peak: <100V at 24V

Parts dropped in transit or during manufacture shall be treated as rejects and shall be placed in corresponding containers

Anderung m. n. Org./ Revision w. n. orig.									
MAN-Erstfreigabe/ MAN 1st release	X	b	81.79003.0	08.12.16	V.Polunski	W.Gottwa.	Scheiben.	09.12.16	21.12.16
Abt.-Werk: EEHC-M		A.Ind. / Rev. no.	Datum/ Date	Bearb. / Drawn	Ko.-Freig. / Design-rel.	Norm./Sepr. / Stand./Check			
		Sachnummer/Identification no.						Blatt/ Sheet	02
		81.25902-0563							
		Freigabebedingungen nach MAN 239 beachten/ Release cond. for purch. parts acc. to MAN 239							
		CAD-Fremdzeichnung in CATIA/3rd party CAD drawing in CATIA Die Identität mit dem Original wird bestätigt./ Identity with the original (drawing) is confirmed						Lastenheft specification:	

MAN Ben.: RELAIS WECHSLER
MAN Title: RELAY WECHSLER

100
90
80
70
60
50
40
30
20
10
0

FET : 02/17

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APPLICABLE SPEC.		FINISH		
		DIMENSIONS APPLY PLATING		
		SCALE WEIGHT		
		MATERIAL		
		PART NAME		
		DATA SHEET V23134-A0056-X433		
		DWG NO.		
B Initial Release 04NOV2016 KBler		SHT. 1 OF 1		
REV. CHANGE ORDER DATE APP.				