

88901392-MBA3F

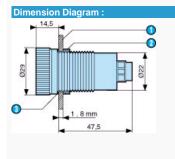


Solid state output

- Panel-mounted pushbutton-type timer
- Function A delay on energisation
- ✓ 10 timing ranges: 0.05 s to 60 min
- ✓ Supply 24 V DC and 110 →240 V DCAC 50 →60 Hz
- Fast adjustment of timing period on PLCs (compatible with IEC1131)

Repetition accuracy (with constant parameters)

Idvarged delay 7 ms Maxmum repatition by de-energisation MBASF after iming 5 ms Maxmum repatition by de-energisation MBASF after iming 60 ms Maxmum reset time by de-energisation MBASF after iming 60 ms Maxmum reset time by de-energisation MBASF after iming 60 ms Maxmum reset time by de-energisation MBASF after iming 30 ms Solid state open collector PNP output WBASF: S5 V AC MBASF: S3 V DC Voltage drop at terminals MBASF: S0 V CC MBASF: S3 V DC Normal rating MBASF: S0 V AC MBASF: S1 M AC Protection against polority inversions >10 ⁸ Protection against polority inversions >10 ⁸ Protection against polority inversions >10 ⁹ Protection against polority is tas by LCP. Power on Protection against overvoltage	Display precision	±5%	
Inted delay Sms Maxmum rest time by de-energisation MBA2F after tening Sms Maxmum rest time by de-energisation MBA2F after tening Sms Maxmum rest time by de-energisation MBA2F after tening Sms Solid state open collector PNP output Sms Voltage drop at terminals MBA2F: 55 V AC Nominal rating MBA2F: 55 V AC Nominal rating MBA2F: 50 V C MBA2F: 50 V C MBA2F: 50 V C Leakage current MBA2F: 50 V C MBA2F: 50 V C MBA2F: 50 V C Frotection against boat ricruits Sma AC Display of output state by LED: Power on Image Accel State of trop output state by LED: Power on Image Accel Protection against boat ricruits Sms Display of output state by LED: Power on Image Accel Varitet protection against tower/outage Image Accel		7	
immg imm imm Maximum reset time by de-energisation MBA2F after anag 30 ms Solid state open collector PNP output 30 ms Voltage drop at terminals MBA2F: 55 V AC MBA3F: 53 V DC Maximum reset time by de-energisation MBA2F after anag MBA2F: 55 V AC MBA3F: 50 mA AC DOW AN AL 200C (derating 5 mA/PC) MBA3F: 200 mA AL 20 °C (derating 1.5 mA/PC) MBA3F: 50 m AL D Frotection against load short circuits 10 ⁸ Protection against load short circuits 10 ⁸ Display of output state by LED: output in operation 1500 V / 50 Hz / 1 min Riggle 1000 V / 50 Hz / 1 min Riggle 1000 V / 50 Hz / 1 min Riggle 1000 V / 50 Hz / 1 min Riggle 1000 V / 50 Hz / 1 min Riggle +0.05K/PC Ordiff Temperature lines user (°C) -0.05K/PC Ordiff Temperature lines stored (°C) +0.02K/V Contoming to stored to VE 0435 / ICE 255 / ICE 1510 IFIO Ordiff Temperature lines stored (°C) 100 FC 2500 / ICE 1525 / ICE 1510 I	timed delay	/ ms	
timeg 60 ms Maximum reset time by de-energisation MBA2F after timing 30 ms Solid state open collector PNP output 30 ms Vollage drop at terminals MBA2F: 55 V AC MBA3F: 50 V DC MBA3F: 50 V DC MBA3F: 50 V DC MBA3F: 50 V DC MBA3F: 50 V DA at 200 C (derating 5 mA^CC) MBA3F: 50 V DA at 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) I celakage current MBA2F: 50 M AA 200 C (derating 5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) I celakage current MBA2F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 M A 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 M A 200 M A 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 C (derating 1.5 mA^CC) MBA3F: 50 M AA 200 M A 200 M A 200 M A 200 M AA 20	Maximum reset time by de-energisation MBA3F after	5 ms	
siming out mis Maximum revel time by de-energisation MBA2F after timing 30 ms Solid state open collector PNP output WBA2F: s S V AC MBA3F: s			
Maximum reset time by de-energisation MBA2F after timing 30 ms Solid state open collector PNP output MBA2F: s 5 V AC Votage drop at terminals MBA2F: s 5 V AC Maxer MBA2F: s 0 V CC Nominal rating MBA2F: s 00 mA at 200°C (derating 5 mA°C) Leakage current MBA2F: s 0 mA CC Electrical life (number of operations) > 10 ⁶ Protection against load short circuits V Display of output state by LED: output in operation V Display of output state by LED: Power on V Protection against load short circuits V Delectric strength (V rms) 1500 V/ 50 Hz / 1 min Ropple 1000 V/ 50 Hz / 1 min Ropple 1000 V/ 50 Hz / 1 min Protection against load short circuits V Delectric strength (V rms) 1500 V/ 50 Hz / 1 min Ropple 1000 V/ 50 Hz / 1 min Ropple 1000 V/ 50 Hz / 1 min Conternity to stand store CO -20 -+60 Temperature limits use (°C) -20 -+60 Temperature limits store (°C) -20 -+60 Onft Temperature + 0.05%/°C Drift Votage + 0.05%/°C Onft Temperature limits store (°C) -20 -460 Temminal capacity Numerical Self-estinguishing		60 ms	
sums 30 ms Solid state open collector PNP output Voltage drop at terminals MBA2F: 5 5 V AC MBA3F: 53 V DC Nominal rating MBA2F: 45 V AC MBA3F: 20 0 mA at 20°C (derating 5 mA*C) MBA3F: 20 m A at 20°C (derating 1.5 mA*C) Leskage current MBA2F: 5 m AC MBA3F: 20 m A at 20°C (derating 1.5 mA*C) Protection against polarity inversions > 10 ⁶ Protection against polarity inversions > 10 ⁶ Protection against polarity inversions > 10 ⁶ Display of output state by LED: output in operation > 10 ⁶ Display of output state by LED: output in operation > 10 ⁶ Variator protection against polarity inversions > 10 ⁶ Variator protection against polarity inversion > 20 -+60 Temperature limits stored (°C) > 20 -+60 Variator protection against polarity to kandards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4 > 605 Protection cass according to NFC C 20010-IEC 529-DN P65 Varotagainst polarity to kandards VDE 0435 / ICE 252 / ICE			
Voltage drop at terminals MBA2F: 5 5 V AC MBA3F: 50 V DC MBA3F: 20 V At 200C (derating 5 mA*C) MBA3F: 20 V At 200C (derating 5 mA*C) MBA3F: 20 V At 20 °C (derating 1.5 mA*C) MBA3F: 20 V At 20 °C (derating 1.5 mA*C) Leakage current MBA3F: 20 V At 20 °C (derating 1.5 mA*C) MBA3F: 20 V At 20 °C (derating 1.5 mA*C) Protection against load short circuits > 10 ⁸ Protection against load short circuits > 10 ⁸ Display of output state by LED: output in operation > 10 ⁸ Display of output state by LED: output in operation > 10 ⁹ Protection against load short circuits > 10 ⁹ Display of output state by LED: output in operation > 10 ⁹ Protection against load short circuits > 10 ⁹ Display of output state by LED: Power on > 10 ⁹ Display of output state by LED: output in operation > 10 ⁹ Temperature limits store (°C) -20 → 460 Temperature limits store (°C) -20 → 460 Varistor protection against overvoltage + 0.05%/°C Orift Voltage + 0.05%/°C Orift Voltage + 0.05%/°C Orift Voltage + 0.05%/°C Voltage iteminal Protection class according to NFC C 20010-IEC 529-DIN IP65 IP65 Protection class according to NFC C 20010-IEC 529-DIN IP10 40050 forminal Self-extinguishing <t< td=""><td></td><td>30 ms</td></t<>		30 ms	
Median Median Nominal rating MBASE: 43 VDC Nominal rating MBASE: 400 mA at 20°C (derating 5 mA/°C) MBASE: 50 mA AC MBASE: 50 mA AC MBASE: 50 ma AC Display of output state by LED: output in operation 500 V/ 50 Hz / 1 min Energrature limits use (°C) 20 +460 Temperature limits stored (°C) 20 +460 Valstor protection against overvoltage +/ 0.2%/V Onif Temperature +/ 0.0%/C <t< td=""><td>Solid state open collector PNP output</td><td></td></t<>	Solid state open collector PNP output		
Nominal rating MBA2E: 400 mA at 200°C (derating 5 mA ⁿ °C) MBA3E: 20 m At 20 °C (derating 1.5 mA ⁿ °C) MBA3E: 30 m A AC MBA3E: 400 m A AC MB	Voltage drop at terminals	MBA2F:≤5 V AC	
Leakage current MBA3F: 200 mA at 20 °C (derating 1.5 mA/°C) Leakage current MBA2F: 55 mA AC MBA3F: 50, 1 mA DC Electrical life (rumber of operations) Protection against polarity inversions > 10 ⁸ Protection against bod shot circuits > 100 Display of output state by LED: output in operation > 100 V / 50 Hz / 1 min Ripple 1500 V / 50 Hz / 1 min Protection against cod shot circuits > 100 V / 50 Hz / 1 min Protection against cod rCO - 20 -+60 Temperature limits use (*C) - 20 -+60 Temperature limits use (*C) - 20 -+60 Protection against overvoltage - 4.005%/*C Diff Temperature + /- 0.05%/*C Drift voltage - 4.005%/*C Drift voltage + /- 0.2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 - 4.005%/*C Protection class according to NFC C 20010 - IEC 529 - DNI P665 Protection class according to NFC C 20010 - IEC 529 - DNI P10 Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal screws M3 <td></td> <td>MBA3F: ≤ 3 V DC</td>		MBA3F: ≤ 3 V DC	
MBA3F: ≤ 0,1 mA DC Electrical life (number of operations) > 10 ⁸ Protection against polarity inversions > 10 ⁸ Protection against load short circuits A Display of output state by LED: output in operations A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of output state by LED: Power on A Display of post post post post post post post post	Nominal rating		
Protection against polarity inversions Image: Comparison of Comparis	Leakage current		
Protection against load short circuits Protection against load short circuits Display of output state by LED: output in operation Display of output state by LED: Power on Dielectric strength (V rms) 1500 V / 50 Hz / 1 min Ripple ± 10% Temperature limits use (°C) 20 → +60 Yaristor protection against overvoltage Drift Temperature Drift Voltage +/- 0,05%/°C Orift Voltage +/- 0,05%/°C Orift Voltage +/- 0,05%/°C Orift Voltage +/- 0,05%/°C Orift Voltage +/- 0,05%/°C Protection class according to NFC C 20010-IEC 529-DIN Potection class according to NFC C 20	Electrical life (number of operations)		
Protection against load short circuits Image: State stat	Protection against polarity inversions	1	
Display of output state by LED: output in operation Display of output state by LED: Power on Dielectric strength (V rms) Ripple ± 10% Temperature limits use (°C) - 20 →+60 Temperature limits use (°C) - 20 →+80 Varistor protection against overvoltage Drift Temperature Drift Voltage + /- 0,05%/°C Orfft Voltage + /- 0,2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 / I Cestor 4 Protection class according to NFC C 20010 - IEC 529-DIN 40050 Panel-mounted Protector class according to NFC C 20010 - IEC 529-DIN 40050 Terminal Housing material Housing material Self-extinguishing Terminal capacity Multi-wire with ferrule 1 x 2, 5 mm² Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Protection against load short circuits		
Dielectric strength (V rms)1500 V / 50 Hz / 1 minRipple± 10%Temperature limits use (*C)-20 ->+60Temperature limits stored (*C)-20 ->+80Varistor protection against overvoltage-20 ->+80Drift Temperature+/- 0,05%/*CDrift Voltage+/- 0,2%/VConformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4-Protection class according to NFC C 20010-IEC 529-DIN 40050 TeminalIP65Protection class according to NFC C 20010-IEC 529-DIN 40050 TeminalIP10Housing materialSelf-extinguishingTerminal capacity Single-wire1 x 4 mm²Terminal capacity Multi-wire with ferrule1 x 2,5 mm²Terminal screwsM3Tightening torque (Nm)0,5 Nm	Display of output state by LED: output in operation		
Dielectric strength (V rms)1500 V / 50 Hz / 1 minRipple± 10%Temperature limits use (°C)-20 →+60Temperature limits stored (°C)-20 →+80Varistor protection against overvoltage-Drift Temperature+/- 0,05%/°CDrift Voltage+/- 0,2%/VConformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4-Protection class according to NFC C 20010-IEC 529-DIN 40050 Panel-mountedIP65Protection class according to NFC C 20010-IEC 529-DIN 40050 TerminalSelf-extinguishingHousing materialSelf-extinguishingTerminal capacity Single-wire1 x 4 mm²Terminal capacity Multi-wire with ferrule1 x 2,5 mm²Terminal capacity Multi-wire with ferrule0,5 Nm	Display of output state by LED: Power on	J	
Temperature limits use (°C) -20 →+60 Temperature limits stored (°C) -20 →+80 Varistor protection against overvoltage -20 →+80 Drift Temperature +/- 0,05%/°C Drift Voltage +/- 0,2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4 - Protection class according to NFC C 20010-IEC 529-DIN 40050 Panel-mounted IP65 Protection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Dielectric strength (V rms)		
Temperature limits stored (°C) -20 →+80 Varistor protection against overvoltage -20 →+80 Drift Temperature +/- 0,05%/°C Drift Voltage +/- 0,2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4	Ripple	±10%	
Varistor protection against overvoltage ////////////////////////////////////	Temperature limits use (°C)	-20 ->+60	
Drift Temperature +/- 0,05%/°C Drift Voltage +/- 0,2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / // ICE 801 4 // Protection class according to NFC C 20010-IEC 529-DIN 40050 Panel-mounted IP65 Protection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Temperature limits stored (°C)	-20 →+80	
Drift Voltage +/- 0,2%/V Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4 // Protection class according to NFC C 20010-IEC 529-DIN 40050 Panel-mounted IP65 Protection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Varistor protection against overvoltage	1	
Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4 Image: Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4 Protection class according to NFC C 20010-IEC 529-DIN 40050 Panel-mounted IP65 Protection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Frotection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Drift Temperature	+/- 0,05%/°C	
ICE 801 4 Image: Constraint of the state	Drift Voltage	+/- 0,2%/V	
40050 Panel-mounted IP65 Protection class according to NFC C 20010 - IEC 529 - DIN 40050 Terminal IP10 Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm		1	
Protection class according to NFC C 20010 - IEC 529 - DIN IP10 40050 Terminal Self-extinguishing Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm		IP65	
Housing material Self-extinguishing Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm		IP10	
Terminal capacity Single-wire 1 x 4 mm ² Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm		Self-extinguishing	
Terminal capacity Multi-wire with ferrule 1 x 2,5 mm ² Terminal screws M3 Tightening torque (Nm) 0,5 Nm			
Terminal screws M3 Tightening torque (Nm) 0,5 Nm	Terminal capacity Multi-wire with ferrule		
	Terminal screws		
	Tightening torque (Nm)	0,5 Nm	
weight (g) 27	Weight (g)	27	



Legend Panel

N

1

2	Nut		www.crouzet.con	
3	Sealing ring			
Dimension Diagram : Découpe panneau				
Curves :				
A1-A2 18				
Function A				
Delay on energisation				
: Version 24 V DC on relay				
N° 1	Legend			
: Version 24 V DC on PLC				
N ^o 1	Legend			
2				

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