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ATEX  **certified**  
www.atexcertified.com

**MSM□/□/□**

 2 ZG Ex db mb MC Gb (20°C/Tai)  
2 ZG Ex db mb MB Gb (40°C/Tai)  
IECEx CML 19 0065J CML 19 ATEX 1300U Ta=80°C

**Ex**  
Ue=600V Ic: A  
A1 +0 -A2 -V

0163



# **Delvalle**, wide experience in manufacturing solutions for hazardous area



## **WE PUT AT YOUR DISPOSAL**

We offer over **45 years** providing hazardous area **solutions** to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

## **WHEREVER YOU GO**

We are committed to working closely with our customers, providing them with exceptional service and offering an advanced and **extensive range of hazardous area products** with very competitive prices.

## **CONSULTING & ENGINEERING**

Atex Delvalle adapts to our clients' needs by offering hazardous-area systems.  
Certified Junction Box Assembly.  
Atex-delvalle are the leading certified assembler of Ex junction boxes. With an extensive stock holding of stainless steel enclosures, our workshops are able to provide unrivalled competence, expertise, quality and service to customer specifications.  
Our customized services, experienced design and drafting 3D support.

## **HIGH STANDARD OF QUALITY AND SERVICES**

We only use materials provided by companies who offer the very highest quality, suitable and certified products. Our success is due to **top quality** assurance:  
ISO 9001, SGS, UL, TÜV, ISO 14000, Ohsas 18001, ATEX, IECEx.



## **CONTACT US**

Confidentiality, reliability & quality

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+34 945 601 381

ALSO ONLINE

**Please contact our technical sales department.**

A team of professionals with high experience and ability to solve all your queries.





Zones 1 and 2

# EX MAGNETIC STARTER MODULE (CONTACTOR+THERMORELAY)

**Can Be Connected Safely  
and Easily Thanks to Readily  
Accessible Terminals**



Example

Delvalle Ex contactor/motor protection relay combination was designed for installation in 'Ex e' enclosures in Zones 1 and 2 and as a protective and switching device.

It is low maintenance, can be connected safely and easily thanks to readily accessible terminals and has an anti-vibration screw connection.



**FOR MORE INFORMATION CLICK HERE**

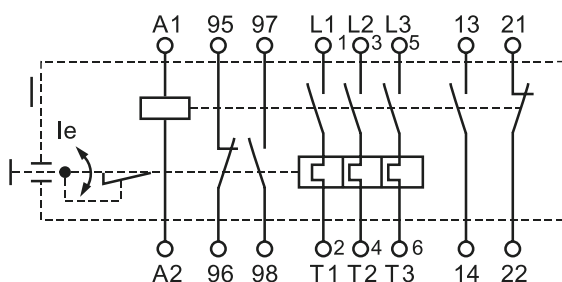


# EX MAGNETIC STARTER MODULE (CONTACTOR+THERMORELAY)

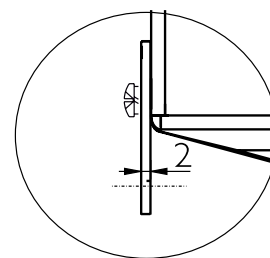
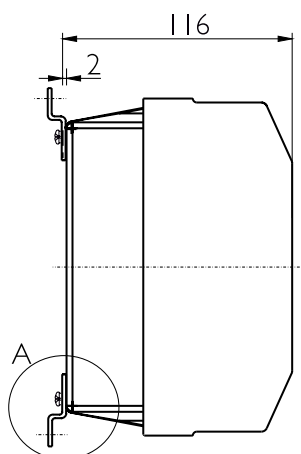
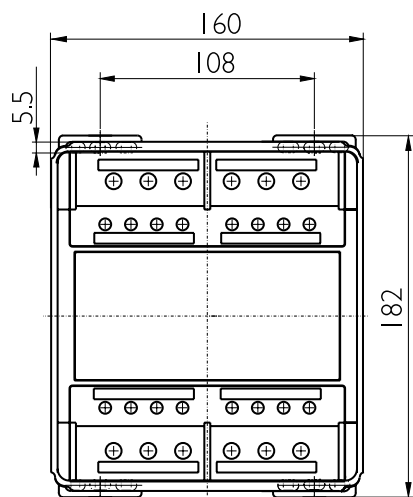
## TECHNICAL DATA

- Zones I and 2.
- Rated voltage: 690V.
- Rated current: up to 38A.
- Setting range of over load trip: up to 38A.
- ON/OFF capacity: up to 18.5kW.
- Coil voltage: up to 440V.
- Rated voltage of aux. contact: 690V.
- Rated current aux. contact 95/96NC, 97/98NO:5A.
- Rated current aux. contact 13/14NO, 21/22NC:10A.
- Terminals:
  - Main contacts 1 ~ 10mm<sup>2</sup> (6 ~ 10mm<sup>2</sup> used in connection with compression lug).
  - Auxiliary contact 1 ~ 2.5mm<sup>2</sup>.
- Material of enclosure: unsaturated resin.
- Weight: 2,5kg.

## ELECTRICAL DIAGRAM



## PLAN AND DIMENSIONS



A  
Another kind  
of the mounting way

## CERTIFICATES

- Certificates number:
  - IECEx CML 19.0085U
  - CML 19 ATEX 1300U
- Type protection:
  - II 2G Ex db eb IIC Gb
  - II 2G Ex db eb IIB Gb
- Standard:
  - Directive 2014/34/EU
  - EN IEC 60079-0:2018
  - EN 60079-1:2014
  - EN IEC 60079-7:2015+A1:2018
  - IEC 60079-0:2017
  - IEC 60079-1:2014-06
  - IEC 60079-7:2017
- Ambient temperature:
  - -20°C < Ta < +60°C (IIC)
  - -40°C < Ta < +60°C (IIB)
- Operating temperature:
  - -20°C < Ta < +110°C (IIC)
  - -40°C < Ta < +110°C (IIB)

# EX MAGNETIC STARTER MODULE (CONTACTOR+THERMORELAY)

## REFERENCES

Reference configuration. Examples: MSM0.16/400/NONC, MSM13/48/NONC or **MSM1.6/24/NONC**.

| 1    | + | 2                                                                                                                                                                                                                                                                                                                                                                                                             | + | 3                                                                                                                                                                          | + | 4                 |
|------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------|
| Code |   | Setting Range of Thermorelay                                                                                                                                                                                                                                                                                                                                                                                  |   | Coil Service Voltage (AC)                                                                                                                                                  |   | Auxiliary Contact |
|      |   | <b>0.16:</b> 0.1 - 0.16 A<br><b>0.25:</b> 0.16 - 0.25 A<br><b>0.4:</b> 0.24 - 0.4 A<br><b>0.63:</b> 0.4 - 0.63 A<br><b>1:</b> 0.63 - 1 A<br><b>1.6:</b> 1 - 1.6 A<br><b>2.5:</b> 1.6 - 2.5 A<br><b>4:</b> 2.4 - 4 A<br><b>6:</b> 4 - 6 A<br><b>8:</b> 5.5 - 8 A<br><b>10:</b> 7 - 10 A<br><b>13:</b> 9 - 13 A<br><b>18:</b> 12 - 18 A<br><b>24:</b> 16 - 24 A<br><b>32:</b> 23 - 32 A<br><b>38:</b> 30 - 38 A |   | <b>24:</b> 24V<br><b>36:</b> 36V<br><b>48:</b> 48V<br><b>110:</b> 110V<br><b>220:</b> 220V<br><b>380:</b> 380V<br><b>230:</b> 230V<br><b>240:</b> 240V<br><b>400:</b> 400V |   |                   |
| MSM  |   | 1.6                                                                                                                                                                                                                                                                                                                                                                                                           | / | 24                                                                                                                                                                         | / | NONC              |

| REFERENCES EX MAGNETIC STARTER MODULE |                                            |                                                    |
|---------------------------------------|--------------------------------------------|----------------------------------------------------|
| REFERENCES                            | RATED CURRENT OF AC CONTACTOR              | DESCRIPTION                                        |
| MSM0.16/_/NONC                        | 12                                         | EX MAGNETIC STARTER MODULE, 0.1-0.16A, _Vac, NONC  |
| MSM0.25/_/NONC                        |                                            | EX MAGNETIC STARTER MODULE, 0.16-0.25A, _Vac, NONC |
| MSM0.4/_/NONC                         |                                            | EX MAGNETIC STARTER MODULE, 0.2-0.4A, _Vac, NONC   |
| MSM0.63/_/NONC                        |                                            | EX MAGNETIC STARTER MODULE, 0.4-0.63A, _Vac, NONC  |
| MSM1/_/NONC                           |                                            | EX MAGNETIC STARTER MODULE, 0.63-1A, _Vac, NONC    |
| MSM1.6/_/NONC                         |                                            | EX MAGNETIC STARTER MODULE, 1-1.6A, _Vac, NONC     |
| MSM2.5/_/NONC                         |                                            | EX MAGNETIC STARTER MODULE, 1.6-2.5A, _Vac, NONC   |
| MSM4/_/NONC                           |                                            | EX MAGNETIC STARTER MODULE, 2.4-4A, _Vac, NONC     |
| MSM6/_/NONC                           |                                            | EX MAGNETIC STARTER MODULE, 4-6A, _Vac, NONC       |
| MSM8/_/NONC                           |                                            | EX MAGNETIC STARTER MODULE, 5.5-8A, _Vac, NONC     |
| MSM10/_/NONC                          |                                            | EX MAGNETIC STARTER MODULE, 7-10A, _Vac, NONC      |
| MSM13/_/NONC                          | 25                                         | EX MAGNETIC STARTER MODULE, 9-13A, _Vac, NONC      |
| MSM18/_/NONC                          |                                            | EX MAGNETIC STARTER MODULE, 12-18A, _Vac, NONC     |
| MSM24/_/NONC                          |                                            | EX MAGNETIC STARTER MODULE, 16-24A, _Vac, NONC     |
| MSM32/_/NONC                          | 38                                         | EX MAGNETIC STARTER MODULE, 23-32A, _Vac, NONC     |
| MSM38/_/NONC                          |                                            | EX MAGNETIC STARTER MODULE, 30-38A, _Vac, NONC     |
| Version Aux. Contact NO               | Replace "/NONC" for "/NO" in the reference |                                                    |
| Version Aux. Contact NC               | Replace "/NONC" for "/NC" in the reference |                                                    |



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### EX LOCAL CONTROL & DISTRIBUTION BOXES **CONTREX SERIES**



### PLUG AND SOCKET BOXES **CONNEX SERIES**



### FLAMEPROOF CONNECTION BOXES **EJB SERIES**



### EX LIGHTING FIXTURE **ATEX**



### PRESSURIZED ENCLOSURE EX P **PEPPEX SERIES**



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### EX 19" RACK ATEX



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/ FLEXIBLE ATEX & IECEx SOLUTIONS



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Contact us, we will be available at any time