

## Standard Motor Starters CUBEx Series 8264

**CUBEx**

STAHL



- > Enclosures with Ex d protection
- > Available standard motor starters:
  - Direct-on-line motor starters DOL
  - Star-delta starters YD
  - Reversing starter combinations
- > Advantage
  - short time of delivery



10231E00

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The standard motor starters described on the next page are fitted in flameproof enclosures.

As standard the starters are supplied without main switch, starting transformer, main and starter fuses and without control and monitoring devices; these parts can however be fitted to order. Further details on request.

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|            | ATEX / IECEx |   |   |    |    |    |            | NEC 505<br>Class I |   |   | NEC 506 |    |    |
|------------|--------------|---|---|----|----|----|------------|--------------------|---|---|---------|----|----|
| Zone       | 0            | 1 | 2 | 20 | 21 | 22 | Zone       | 0                  | 1 | 2 | 20      | 21 | 22 |
| For use in |              | x | x |    | x  | x  | For use in |                    | x |   |         |    |    |

# Standard Motor Starters CUBEx

## Direct-On-Line Motor Starters DOL

### Series 8264

#### Explosion Protection

##### Global (IECEX)

Gas and dust

IECEX KEM 07.0051X  
 Ex d ... IIB + H2 T6 ... T4, Ex d ... IIB T6 ... T4  
 Ex tD A21 IP66 T80°C ... T130°C

##### Europe (ATEX)

Gas and dust

KEMA 01 ATEX 2145  
 Ex II 2 GD Ex d IIB T6 (others on request)

#### Certifications and certificates

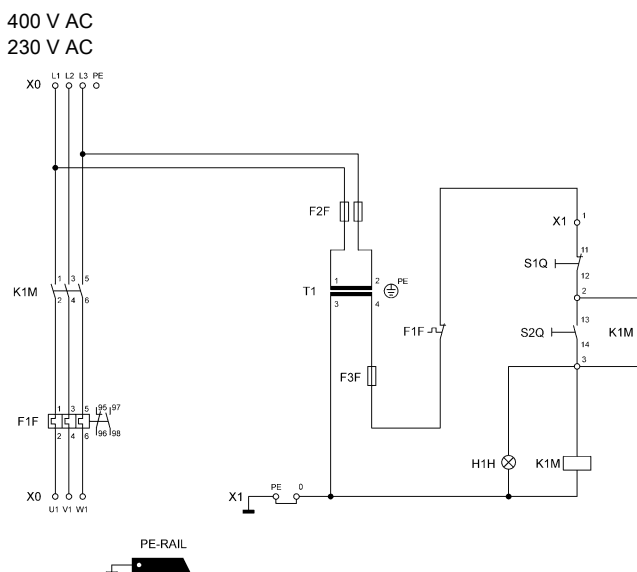
Certificates

IECEX, ATEX, Brazil (INMETRO), China (China-Ex), India (PESO), Canada (cUL), Kazakhstan (TR), Korea (KCs), Russia (TR), Taiwan (ITRI), USA (UL), Belarus (TR)

#### Technical Data

##### Electrical data

Rated voltage  
 Control voltage  
 Circuit diagram



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##### Ambient conditions

Ambient temperature

standard: -20 ... +40 °C  
 on request: -55 ... +60 °C (IIB)  
 -20 ... +60 °C (IIB + H2.)  
 -55 ... +60 °C (tD)

##### Mechanical data

Degree of protection  
 Enclosure

IP66 (EN 60529)  
 standard: Aluminium (saltwater-proof according to EN 13195-1)  
 special: Stainless steel

Note

Description:  
 Contactor for switching on and off of motor circuits and ohmic consumers.  
 With thermal excess-current release, design with control transformer acc. to EN 60204.  
 To select the control transformer please state the rated voltage of the power supply.

#### Direct On-Line Motor Starters DOL

##### Selection Table

| Breaking capacity<br>400 V AC-3 | Ex d<br>Enclosure | Cross section for connection                  | Cable entries, bottom   | Ordering code            |
|---------------------------------|-------------------|-----------------------------------------------|-------------------------|--------------------------|
| 5.5 kW                          | 8264/5212         | 4 x 6 mm <sup>2</sup> 3 x 4 mm <sup>2</sup>   | 1 x M32 3 x M25         | 8264/5-SM-ES5,5kW400V-T  |
| 7.5 kW                          | 8264/5212         | 4 x 10 mm <sup>2</sup> 3 x 6 mm <sup>2</sup>  | 1 x M32 3 x M25         | 8264/5-SM-ES7,5kW400V-T  |
| 11 kW                           | 8264/5212         | 4 x 10 mm <sup>2</sup> 3 x 6 mm <sup>2</sup>  | 1 x M32 3 x M25         | 8264/5-SM-ES11kW400V-T   |
| 15 kW                           | 8264/5212         | 4 x 16 mm <sup>2</sup> 3 x 6 mm <sup>2</sup>  | 1 x M32 3 x M25         | 8264/5-SM-ES15kW400V-T   |
| 18.5 kW                         | 8264/5212         | 4 x 16 mm <sup>2</sup> 3 x 10 mm <sup>2</sup> | 1 x M32 3 x M25         | 8264/5-SM-ES18,5kW400V-T |
| 22 kW                           | 8264/5212         | 4 x 35 mm <sup>2</sup> 3 x 10 mm <sup>2</sup> | 1 x M40 1 x M32 2 x M25 | 8264/5-SM-ES22kW400V-T   |
| 30 kW                           | 8264/5222         | 4 x 35 mm <sup>2</sup> 3 x 16 mm <sup>2</sup> | 1 x M40 1 x M32 2 x M25 | 8264/5-SM-ES30kW400V-T   |
| 37 kW                           | 8264/5222         | 4 x 35 mm <sup>2</sup> 3 x 16 mm <sup>2</sup> | 1 x M40 1 x M32 2 x M25 | 8264/5-SM-ES37kW400V-T   |
| 45 kW                           | 8264/5222         | 4 x 50 mm <sup>2</sup> 3 x 35 mm <sup>2</sup> | 1 x M50 1 x M40 2 x M25 | 8264/5-SM-ES45kW400V-T   |
| 55 kW                           | 8264/5323         | 4 x 50 mm <sup>2</sup> 3 x 35 mm <sup>2</sup> | 1 x M50 1 x M40 2 x M25 | 8264/5-SM-ES55kW400V-T   |
| 75 kW                           | 8264/5323         | 4 x 50 mm <sup>2</sup> 3 x 35 mm <sup>2</sup> | 1 x M50 1 x M40 2 x M25 | 8264/5-SM-ES75kW400V-T   |

# Standard Motor Starters CUBEx

## Star-Delta Starters YD

### Series 8264

**CUBEx**



#### Explosion Protection

##### Global (IECEx)

Gas and dust IECEx KEM 07.0051X  
 Ex d ... IIB + H2 T6 ... T4, Ex d ... IIB T6 ... T4  
 Ex tD A21 IP66 T80°C ... T130°C

##### Europe (ATEX)

Gas and dust KEMA 01 ATEX 2145  
 II 2 GD Ex d IIB T6 (others on request)

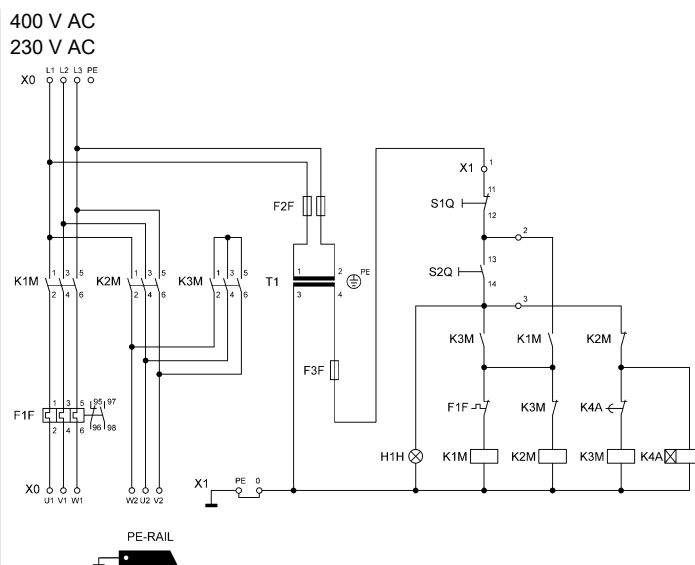
##### Certifications and certificates

Certificates IECEx, ATEX, Brazil (INMETRO), China (China-Ex), India (PESO), Canada (cUL), Kazakhstan (TR), Korea (KCs), Russia (TR), Taiwan (ITRI), USA (UL), Belarus (TR)

#### Technical Data

##### Electrical data

Rated voltage  
 Control voltage  
 Circuit diagram



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##### Ambient conditions

Ambient temperature

standard: -20 ... +40 °C  
 on request: -55 ... +60 °C (IIB)  
 -20 ... +60 °C (IIB + H2.)  
 -55 ... +60 °C (tD)

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##### Mechanical data

Degree of protection  
 Enclosure

IP66 (EN 60529)  
 standard: Aluminium (saltwater-proof according to EN 13195-1)  
 special: Stainless steel

Note

Description:  
 Contactor combination for switching on and off of motor circuits and ohmic consumers.  
 With thermal excess-current release, design with control transformer acc. to EN 60 204.  
 To select the control transformer please state the rated of the power supply.

#### Star-Delta Contactor Starters YD

##### Selection Table

| Breaking capacity<br>400 V AC-3 | Ex d<br>Enclosure | Cross section for connection |                         | Cable entries, bottom |                 | Ordering code            |
|---------------------------------|-------------------|------------------------------|-------------------------|-----------------------|-----------------|--------------------------|
| 11 kW                           | 8264/5222         | 4 x 6 mm <sup>2</sup>        | 6 x 4 mm <sup>2</sup>   | 3 x M32               | 2 x M25         | 8264/5-SL-SS11kW400V-T   |
| 15 kW                           | 8264/5222         | 4 x 6 mm <sup>2</sup>        | 6 x 4 mm <sup>2</sup>   | 3 x M32               | 2 x M25         | 8264/5-SL-SS15kW400V-T   |
| 18.5 kW                         | 8264/5222         | 4 x 6 mm <sup>2</sup>        | 6 x 4 mm <sup>2</sup>   | 3 x M32               | 2 x M25         | 8264/5-SL-SS18,5kW400V-T |
| 22 kW                           | 8264/5222         | 4 x 10 mm <sup>2</sup>       | 6 x 6 mm <sup>2</sup>   | 3 x M32               | 2 x M25         | 8264/5-SL-SS22kW400V-T   |
| 30 kW                           | 8264/5323         | 4 x 16 mm <sup>2</sup>       | 6 x 6 mm <sup>2</sup>   | 3 x M40               | 2 x M25         | 8264/5-SL-SS30kW400V-T   |
| 37 kW                           | 8264/5323         | 4 x 35 mm <sup>2</sup>       | 6 x 10 mm <sup>2</sup>  | 3 x M40               | 2 x M25         | 8264/5-SL-SS37kW400V-T   |
| 45 kW                           | 8264/5323         | 4 x 35 mm <sup>2</sup>       | 6 x 16 mm <sup>2</sup>  | 1 x M50               | 2 x M40 2 x M25 | 8264/5-SL-SS45kW400V-T   |
| 55 kW                           | 8264/5323         | 4 x 50 mm <sup>2</sup>       | 6 x 35 mm <sup>2</sup>  | 1 x M50               | 2 x M40 2 x M25 | 8264/5-SL-SS55kW400V-T   |
| 75 kW                           | 8264/5323         | 4 x 50 mm <sup>2</sup>       | 6 x 35 mm <sup>2</sup>  | 1 x M50               | 2 x M40 2 x M25 | 8264/5-SL-SS75kW400V-T   |
| 90 kW                           | 8264/5933         | 4 x 95 mm <sup>2</sup>       | 6 x 50 mm <sup>2</sup>  | 1 x M63               | 2 x M40 2 x M25 | 8264/5-SL-SS90kW400V-T   |
| 110 kW                          | 8264/5933         | 4 x 150 mm <sup>2</sup>      | 6 x 95 mm <sup>2</sup>  | 1 x M63               | 2 x M50 2 x M25 | 8264/5-SL-SS110kW400V-T  |
| 132 kW                          | 8264/5993         | 4 x 150 mm <sup>2</sup>      | 6 x 95 mm <sup>2</sup>  | 1 x M63               | 2 x M50 2 x M25 | 8264/5-SL-SS132kW400V-T  |
| 160 kW                          | 8264/5993         | 4 x 240 mm <sup>2</sup>      | 6 x 150 mm <sup>2</sup> | 3 x M63               | 2 x M25         | 8264/5-SL-SS160kW400V-T  |
| 200 kW                          | 8264/5993         | 4 x 240 mm <sup>2</sup>      | 6 x 150 mm <sup>2</sup> | 3 x M63               | 2 x M25         | 8264/5-SL-SS200kW400V-T  |

# Standard Motor Starters CUBEx

## Reversing Starter Combinations

### Series 8264

**CUBEx**

#### Explosion Protection

##### Global (IECEX)

Gas and dust

IECEX KEM 07.0051X  
 Ex d ... IIB + H2 T6 ... T4, Ex d ... IIB T6 ... T4  
 Ex tD A21 IP66 T80°C ... T130°C

##### Europe (ATEX)

Gas and dust

KEMA 01 ATEX 2145  
 Ex II 2 GD Ex d IIB T6 (others on request)

#### Certifications and certificates

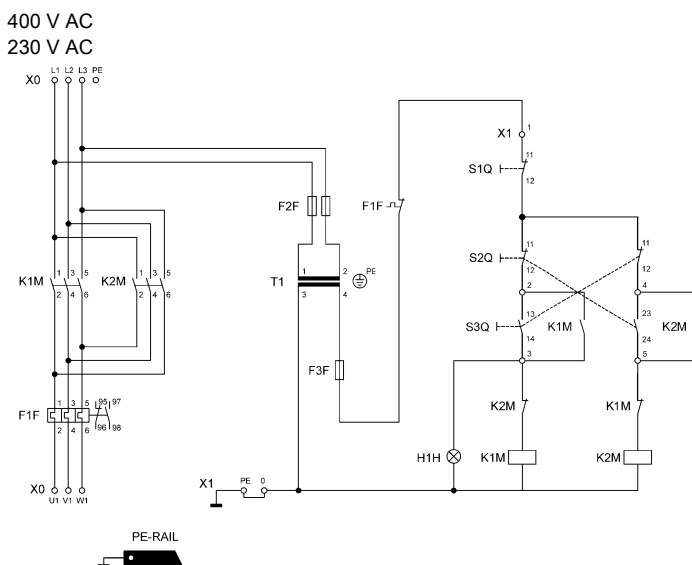
Certificates

IECEX, ATEX, Brazil (INMETRO), China (China-Ex), India (PESO), Canada (cUL), Kazakhstan (TR), Korea (KCs), Russia (TR), Taiwan (ITRI), USA (UL), Belarus (TR)

#### Technical Data

##### Electrical data

Rated voltage  
 Control voltage  
 Circuit diagram



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#### Ambient conditions

Ambient temperature

standard: -20 ... +40 °C  
 on request: -55 ... +60 °C (IIB)  
 -20 ... +60 °C (IIB + H2.)  
 -55 ... +60 °C (tD)

#### Mechanical data

Degree of protection  
 Enclosure

IP66 (EN 60529)  
 standard: Aluminium (saltwater-proof according to EN 13195-1)  
 special: Stainless steel

Note

Description:  
 Contactor combination for changing direction of rotation of motor circuits.  
 With thermal excess-current release, design with control transformer acc. to EN 60 204.  
 To select the control transformer please state the rated voltage of the power supply.

#### Reversing Starter Combinations Selection Table

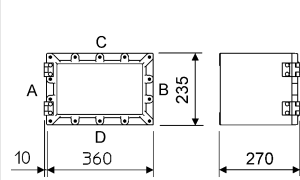
| Breaking capacity<br>400 V AC-3 | Ex d<br>Enclosure | Cross section for connection |                        | Cable entries, bottom |         |         | Ordering code            |
|---------------------------------|-------------------|------------------------------|------------------------|-----------------------|---------|---------|--------------------------|
| 5.5 kW                          | 8264/5112         | 4 x 6 mm <sup>2</sup>        | 3 x 4 mm <sup>2</sup>  | 2 x M32               | 2 x M25 |         | 8264/5-SL-WS5,5kW400V-T  |
| 7.5 kW                          | 8264/5222         | 4 x 6 mm <sup>2</sup>        | 3 x 4 mm <sup>2</sup>  | 2 x M32               | 2 x M25 |         | 8264/5-SL-WS7,5kW400V-T  |
| 11 kW                           | 8264/5222         | 4 x 10 mm <sup>2</sup>       | 3 x 6 mm <sup>2</sup>  | 2 x M32               | 2 x M25 |         | 8264/5-SL-WS11kW400V-T   |
| 15 kW                           | 8264/5222         | 4 x 16 mm <sup>2</sup>       | 3 x 6 mm <sup>2</sup>  | 2 x M32               | 2 x M25 |         | 8264/5-SL-WS15kW400V-T   |
| 18.5 kW                         | 8264/5222         | 4 x 16 mm <sup>2</sup>       | 3 x 10 mm <sup>2</sup> | 2 x M32               | 2 x M25 |         | 8264/5-SL-WS18,5kW400V-T |
| 22 kW                           | 8264/5222         | 4 x 35 mm <sup>2</sup>       | 3 x 16 mm <sup>2</sup> | 1 x M40               | 1 x M32 | 2 x M25 | 8264/5-SL-WS22kW400V-T   |
| 30 kW                           | 8264/5323         | 4 x 35 mm <sup>2</sup>       | 3 x 16 mm <sup>2</sup> | 1 x M40               | 1 x M32 | 2 x M25 | 8264/5-SL-WS30kW400V-T   |
| 37 kW                           | 8264/5323         | 4 x 50 mm <sup>2</sup>       | 3 x 35 mm <sup>2</sup> | 1 x M40               | 1 x M32 | 2 x M25 | 8264/5-SL-WS37kW400V-T   |
| 45 kW                           | 8264/5323         | 4 x 95 mm <sup>2</sup>       | 3 x 35 mm <sup>2</sup> | 1 x M50               | 1 x M40 | 2 x M25 | 8264/5-SL-WS45kW400V-T   |
| 55 kW                           | 8264/5333         | 4 x 95 mm <sup>2</sup>       | 3 x 50 mm <sup>2</sup> | 1 x M50               | 1 x M40 | 2 x M25 | 8264/5-SL-WS55kW400V-T   |
| 75 kW                           | 8264/5333         | 4 x 95 mm <sup>2</sup>       | 3 x 95 mm <sup>2</sup> | 1 x M63               | 1 x M50 | 2 x M25 | 8264/5-SL-WS75kW400V-T   |

## Standard Motor Starters CUBEx Series 8264

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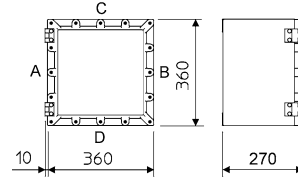


### Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



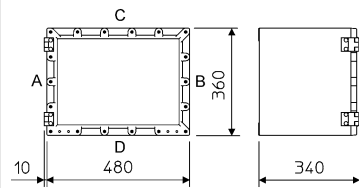
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**8264/5212**



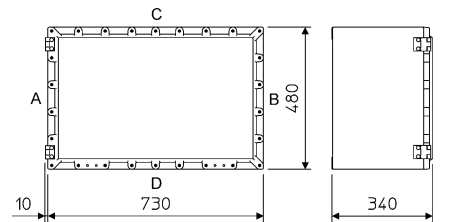
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**8264/5222**



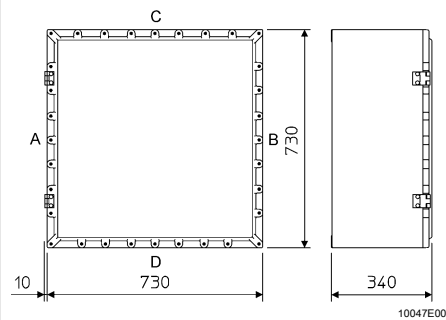
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**8264/5323**



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**8264/5933**



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**8264/5993**

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