SCHRACK

Datasheet: Motor Protection Switches Series BE5


## SCHRACK-INFO

- Motor protection switch 3-pole from 0.16A up to 32A
- Class 10
- Optional auxiliary contact blocks available


## Technical datas

| Standards |  | EN 60647, IEC 60947 |
| :---: | :---: | :---: |
| Rated current $\mathrm{I}_{n}$ |  | 0,1-25A |
| Rated uninterrupted current $=$ rated operational current $\mathrm{I}_{\mathrm{v}}=\mathrm{I}_{\text {e }}$ |  | 25 A or current setting of the overcurrent release |
| Rated operational voltage $\mathrm{U}_{\text {e }}$ |  | 690VAC |
| Rated frequency |  | $40-60 \mathrm{~Hz}$ |
| Tripping | Overload | adjustable 0,6-1 $\times 1 \mathrm{In}$ |
|  | Short circuit | set permanently on $14 \times \mathrm{I}_{n}$ |
| Phase failure protection |  | Yes |
| Tripping capacity | 0,1-10A | 0,1-10A: inherently stable (100kA) |
|  | 10-16A | 50 kA |
|  | 16-25A | 16kA |
| Direction of electric current |  | any |
| Rated impulse withstand voltage $\mathrm{U}_{\text {imp }}$ |  | 6000VAC |
| Overvoltage category |  | III |
| Current heat loss (3 pole at operating temperature) |  | 6W |
| Lifespan | mechanical | 10.000 operations |
|  | electrical (AC-3At 400V) | 10.000 operations |
| Maximum operating frequency |  | 40 operations per hour |
| Short-circuit rating | AC-3 (up to 690V) | 25A |
|  | DC-5 (up to 250V) | 25A (3 contacts in series) |


| Rated making capacity | $\cos \varphi=0,45$ | 230-690VAC | 110A |
| :---: | :---: | :---: | :---: |
| Rated breaking capacity | $\cos \varphi=0,45$ | 230 VAC | 90A |
|  | $\cos \varphi=0,45$ | 400VAC | 90A |
|  | $\cos \varphi=0,45$ | 500VAC | 64 A |
|  | $\cos \varphi=0,45$ | 690 VAC | 54A |
| Rated operational current enclosed, not enclosed I | AC-1-application | 230 VAC | 16A |
|  |  | 400VAC | 16A |
|  |  | 440 VAC | 16A |
|  |  | 500VAC | 16A |
|  |  | 690VAC | 16A |
|  | AC-3-application | 230 VAC | 8,7A |
|  |  | 400VAC | 8,8A |
|  |  | 440VAC | 7,7A |
|  |  | 500VAC | 6,4A |
|  |  | 690 VAC | 4,8A |
|  | AC-4-application | 230 VAC | 6,6A |
|  |  | 400 VAC | 6,6A |
|  |  | 440VAC | 6 A |
|  |  | 500VAC | 5A |
|  |  | 690 VAC | 3,4A |


| Device <br> Degree of protection | Device IP20 |
| :--- | :---: |
|  | Terminations |


|  | max. rated operational power AC-3 |  |  |  |  |  | Continuous <br> rated current | Setting range |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Tripping Characteristic Curve

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| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Let-through Energy Diagram


Wiring diagram


Mounting position


Dimensions

[mm]

Articles

| DESCRIPTION | ORDER NO. |
| :--- | :--- |
| Motor protection switches series BE5 | BE500250 |
| $0.16-0.25 \mathrm{~A}$ | BE500400 |
| $0.25-0.40 \mathrm{~A}$ | BE500630 |
| $0.40-0.63 \mathrm{~A}$ | BE501000 |
| $0.63-1.00 \mathrm{~A}$ | BE501600 |
| $1.00-1.60 \mathrm{~A}$ | BE502500 |
| $1.60-2.50 \mathrm{~A}$ | BE504000 |
| $2.5 \mathrm{~A}-4.0 \mathrm{~A}$ | BE506300 |
| $4.0-6.3 \mathrm{~A}$ | BE510000 |
| $6.3-10 \mathrm{~A}$ | BE516000 |
| $10-16 \mathrm{~A}$ | BE520000 |
| $16-20 \mathrm{~A}$ | BE525000 |
| $20-25 \mathrm{~A}$ | BE532000 |
| $25-32 \mathrm{~A}$ | BE082882 |
| Auxiliary contacts | BE082884 |
| Auxiliary contact front, $1 \mathrm{NO}+1 \mathrm{NC}$ |  |
| Auxiliary contact front, 1 NO |  |

