



Item-No: 204P780.08

Type: KLKUD40B03

## Item Group: Schaltgeräte 3/PE 400V KLKU

<b>Product status:</b>	Standard
<b>Denomination:</b>	KLKU Anbau-Schaltgerät 2,5-4A, 3~400V, 2x M20, 1x BS16, Bremse 400V/15A ZT Relais, Not-Aus Pilztaster, Unterspannungsauslöser 400V/50Hz
<b>Description:</b>	Plastic built-on housing with push buttons, 2 cable gland and 1 blind plug
<b>Usage:</b>	Motor starter and braking device for electrical machines and devices of protection class I (protective conductor)
<b>Engine power class:</b>	AC-3 / 1,5kW / 400V / 3~

Equipment	
Low voltage release	connector for control contact
Overload protection	connector for thermal overload protection
Short-circuit release	Limit switch contact
Phase failure sensitivity	2 cable glands
Braking module	Connection terminals
Emergency stop mushroom push button	1 blind plug
	Push button cover transparent

<b>Switching function</b>	0 – 1 stop	<b>Operating mechanism</b>	Push buttons ON/OFF
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<b>Line data</b>	3/PE 400V / 50Hz	<b>Wiring diagram</b>	851.478
<b>Preliminary fuse (by customers)</b>	max. 16A	<b>Instruction manual</b>	851.600

Technical data		
<b>Rated operational voltage</b>	<b>U<sub>e</sub></b>	400V / 50Hz
<b>Rated operational current</b>	<b>I<sub>e</sub></b>	4A
<b>Rated breaking capacity</b>	<b>AC-3</b>	4A / 1,5kW / 400V / 3~
<b>Main Switching contacts (main circuit)</b>		Make-contact / 3-pole
<b>Control contact (potential-free)</b>		Make-contact / 1-pole / 2A / 400V (AC-15) (13/44 / 14/43)
<b>Operating mechanism</b>		mechanical ON/OFF / electrical OFF / tip-free mechanism
<b>Rated actuating voltage</b>	<b>U<sub>c</sub></b>	400V / 50Hz
<b>Own consumption / Standby</b>		<10VA
<b>Overload protection</b>		thermal / 3-pole / automatic reset
<b>Setting range</b>		2,5 – 4A
<b>Braking module</b>		400V / 15A ZT / Relay
<b>Braking current / Setting</b>		Max. 15A / Potentiometer variable
<b>Braking time / Setting / setting value</b>		approx. 1 – 22s / Potentiometer variable / approx. 12s
<b>Short-circuit trip</b>		magnetic
<b>Operating current</b>		14xI <sub>n</sub> ±20%
<b>Emergency stop</b>		Stop category 1
<b>Make-and-break cycle</b>		10E3
<b>Frequency of operation</b>		25/h
<b>Ambient temperature</b>		-5°C / +40°C

<b>Line inlet</b>	1 screwed cable connection M20 (for cable Ø 10–14 mm) 4 screw terminals 6mm <sup>2</sup> r (PE / 1/L1 / 3/L2 / 5/L3)
<b>Mounting possibility for limit switch</b>	3 screw terminals 6mm <sup>2</sup> r (PE / S1 / S2)
<b>Motor connection</b>	4 screw terminals 6mm <sup>2</sup> r (PE / 2/T1 / 4/T2 / 6/T3)
<b>Connection possibility of thermal overload protection</b>	2 screw terminals 6mm <sup>2</sup> r (T1 / T2)
<b>Outlet</b>	1 screwed cable connection M20 (for cable Ø 10–14 mm) 1 drill hole Ø 16,5mm with clamping gland M16

<b>Protection class</b>	<b>IP</b>	54
<b>Housing</b>		ABS / grey
<b>Type</b>		Built-on / closed / push buttons on top
<b>Mounting</b>		4 threaded bushings M5 – 168 x 94mm
<b>Dimensions</b>	<b>L x W x H</b>	approx. 265 x 121 x 127mm
<b>Weight</b>		approx. 955g

<b>EAN</b>	4250318213838
<b>Conformity / Tests</b>	CE

Funktionsbeschreibung / Functional description	
Switch ON	- Unlock red mushroom push button - Push the green button - Motor is running
Switch OFF while engine is running	- Push the red button - Brake is active for about 1 – 22s (approx. 12s) - Motor is slowed down
Switch ON during Braking process	- not possible - Motor continues to slow down until the end of the preset braking time

Low Voltage release	<ul style="list-style-type: none"> <li>- prevention of restart after voltage breakdown</li> <li>- Triggered during voltage reduction or power failure <ul style="list-style-type: none"> <li>- Motor is running out</li> </ul> </li> <li>- After returning of voltage, it can be switched on again</li> </ul>
Overload protection	<ul style="list-style-type: none"> <li>- Protection against overload current</li> <li>- Triggered when motor current is higher than the default value for a while <ul style="list-style-type: none"> <li>- Motor is being slowed down</li> <li>- Switching ON is not possible, no function</li> </ul> </li> <li>- After sufficient cooling-down of the overload protection, switching ON is possible again.</li> </ul>
Thermal contact in the motor	<ul style="list-style-type: none"> <li>- Protection during excess temperature of motor</li> <li>- Triggered when limit temperature of motor is exceeded <ul style="list-style-type: none"> <li>- Motor is being slowed down</li> <li>- Switching ON is not possible, no function</li> </ul> </li> <li>- After sufficient cooling-down of the motor, it can be switched on again</li> </ul>
Short-circuit release	<ul style="list-style-type: none"> <li>- Protection during short-circuit current</li> <li>- Triggered during a short-circuit in the motor's feed cable or in the motor itself <ul style="list-style-type: none"> <li>- Motor is running out</li> </ul> </li> </ul>
Phase failure sensitivity	<ul style="list-style-type: none"> <li>- Protection during single-phase operation</li> <li>- Triggered during failure of one or two external conductors <ul style="list-style-type: none"> <li>- Motor is running out</li> </ul> </li> </ul>
Emergency stop	<ul style="list-style-type: none"> <li>- To protect persons and the machine from endangering and hazards</li> <li>- Push red mushroom push button <ul style="list-style-type: none"> <li>- Motor is being slowed down</li> <li>- Mushroom push button is locked after being used</li> <li>- Switching ON is not possible, no function</li> </ul> </li> <li>- After Unlocking the switch by turning it to the right, it can be switched on again</li> </ul>
Limit switch	<ul style="list-style-type: none"> <li>- Switching OFF from the power unit by moving machine parts</li> <li>- Triggered when contact is open <ul style="list-style-type: none"> <li>- Motor is being slowed down</li> </ul> </li> <li>- After closing the contact, switching ON is possible again.</li> </ul>



**Please note!**

- Safety Instructions on [www.tripus.com](http://www.tripus.com)
- Calibration of the brake according to instruction manual 851.600 / measure brake current in U1 (2/T1) core
- Do not operate on generators, emergency generators, power generators or mains converters