

CE



Ideal for use as a manual starter

The KT4 is a manual motor starter that employs the features of power switching, thermal overload protection and control circuit signaling in one compact unit. This manual motor starter has the advantage of a high speed magnetic trip mechanism which limits the let-through current under short-circuit conditions. The KT4 can be supplied with field installable shunt trip or an under voltage trip unit which exceeds the capabilities of the classic manual motor starter. This manual motor starter is available in a variety of enclosures including general purpose, watertight and explosion proof (the most compact on the market today).

KT4 Reduces panel space and saves money in Group Motor Installations

The KT4 can eliminate the need for larger and more expensive fuse blocks and fused disconnects, or circuit breakers. The potential cost savings in group motor installations according NEC 430-53c can be as much as 35% over conventional methods of branch circuit protection. And, because so many features are combined into one small unit, panel space can be slashed by as much as 60%.

In addition, the KT4 line offers a wide application range from 0.1 to 16 FLA in installations up to 600V. For group motor applications, the KT4 series has a 250A group installation rating, with a withstand rating as high as 42 KAIC.

Excellent short circuit and thermal overload protection

In the event of a short-circuit, the contacts are opened by magnetic, nonadjusting tripping elements in times approaching 2/1000 of a second. This results in the extremely rapid build-up of an arc voltage which limits the current of the short-circuit to a very low level. Because of this superb current limiting capability the letthrough current is significantly reduced and the potential for damage is limited.

Because each KT4 is individually calibrated at the factory for the smallest and largest current, very accurate thermal overload protection is also obtained. In addition, the KT4 is a Class 10 device ... it trips within 10 seconds under a locked rotor condition (6 x FLA). Every KT4 Manual Motor Starter is equipped with automatic ambient temperature compensation, which continually adjusts to surrounding temperatures. As a result, trip times remain constant and accurate.

Accessories add versatility

Whether in group motor installations or as a manual motor starter, numerous field installable accessories are available to enhance the KT4's performance:

- Auxiliary Contact Blocks are available for internal or external mounting providing signal switching capability for control circuits.
- Shunt trip and Undervoltage Release Modules – provides the ability to remotely actuate the KT4 in emergency situations or continuously monitor the line voltage.
- Enclosures are available in general protection (IP41), or watertight (IP55), complete with lockable accessories.
- **Compact Bus Bar System** reduces the task of line side wiring in multiple motor starter installations which reduces the labor cost of installation.



Series KT4

KT4 Manual Motor Starter 0

	Maxii	num Ho	rsepowe	r 00				Ordering Information ${f 0}$
Single	eØØ		Thre	ee Ø		0/L Relay Ampere	Magnetic Response	
115V	230V	200V	230V	460V	575V	Response O	Current	Catalog Number
~	~	~	~	~	~	0.1 - 0.16	1.8	KT4-C2A-A16
~	~	~	~	~	~	0.16 - 0.25	2.8	KT4-C2A-A25
~	~	2	~	~	~	0.25 - 0.4	4.4	KT4-C2A-A40
~	~	1	~	~	~	0.4 - 0.63	6.9	KT4-C2A-A63
~	~	~	~	~	1/2	0.63 - 1.0	11	KT4-C2A-B10
~	1/10	2	~	1/2	3/4	1.0 - 1.6	18	KT4-C2A-B16
1/10	1/6	1/2	1/2	1	1-1/2	1.6 - 2.5	28	KT4-C2A-B25
1/8	1/3	3/4	3/4	2	3	2.5 - 4.0	44	KT4-C2A-B40
1/4	1/2	1	1-1/2	3	5	4.0 - 6.3	69	KT4-C2A-B63
1/2	1-1/2	2	3	5	7-1/2	6.3 - 10	110	KT4-C2A-C10
1	2	3	5	10	10	10 - 16	176	KT4-C2A-C16

Short Circuit Ratings **©**

	Manual Motor Starter / Group Installation Ratings					
Catalog Number	Short Circ (k	cuit Rating A)	Maximum Branch Circuit Protection Rating 5			
	480V	600V	Amperes			
KT4-C2A-A16	42	42	250			
KT4-C2A-A25	42	42	250			
KT4-C2A-A40	42	42	250			
KT4-C2A-A63	42	42	250			
KT4-C2A-B10	42	42	250			
KT4-C2A-B16	42	42	250			
KT4-C2A-B25	42	10	250			
KT4-C2A-B40	18	5	250			
KT4-C2A-B63	18	5	250			
KT4-C2A-C10	10	5	250			
KT4-C2A-C16	10	5	250			

Horsepower ratings shown are the maximum rating of the switching capacity of the main contactors. The final selection of the manual starter depends on the actual motor full load amps and service factor.

Example #1:

- For a motor with a service factor of 1.15 or greater, use the motor nameplate full load amps and choose the motor starter with the appropriate current range. Motor F.L.A. 4.2A
 - Motor F.L.A. 4.2A Service Factor 1.15

Select catalog number KT4-C2A-A63 (Range 4.0-6.3 Amps)

Example #2:

For a motor with a service factor less than 1.15, use the motor nameplate full load amps times 0.9 and choose the motor starter with the appropriate current range.

Motor F.L.A.		4.2A	
Service Factor		1.0	
Multiplier	Х	0.9	
Effective Current	=	3.784	ł
Select catalog number	KT4-C2A	-A40	(Range 2.5-4.0 Amps)

KT4 Man

- Single phase horsepower ratings are based on wiring the 3 poles of the device in series.
- The KT4 motor circuit controller is approved for use in group installation according to NEC 430-53C. Reference Sprecher + Schuh UL file #E54612.
- The actual trip current is 120% of the dial setting.
- Although UL Testing of Manual Motor Starters allows for Group Installation with upstream Branch Circuit Protection maximum ratings as high as 250 amperes; it should be noted that NEC 2002 contains new restrictions under NEC 430-53D "Single Motor Taps". KT4 should be applied as outlined in NEC 430-53D-1 or 430-53-D-2 to be in compliance. KT4 does not qualify as "Tap Conductor Protection" as required under NEC 430-53-D-3. Please refer to the Application notes located at the end of the KT7 section for more details on compliance.





Accessories for KT4

Accessory	Description	Wiring Diagram	Catalog Number
	Auxiliary Contact Block (NO) - mounts internally.	\ 14	KT4-C-AEA10
	Auxiliary Contact Block (NO) - mounts internally, terminal markings appropriate when also using "PA" type auxiliary contact.	33	KT4-C-AEA210
	Auxiliary Contact Block (NC) - mounts internally.	11 	KT4-C-AEA01
	Auxiliary Contact Block (NC) - mounts internally, terminal markings appropriate when also using "PA" type auxiliary contact.	31	KT4-C-AEA201
œ 1 œ 1	Two pole Auxiliary Contact Block (NO/NC) - for side mounting. If using Compact Bus Bar System, choose bus bar with 54mm spacing	13 21	KT4-C-ASA11
21 100 11 100 100 100 100 100 100 100 100	Two pole Auxiliary Contact Block - (NO/NO) - for side mounting. If using Compact Bus Bar System, choose bus bar with 54mm spacing.	¹³ 23 14 24	KT4-C-ASA20
A AND AND AND AND AND AND AND AND AND AN	Two pole Auxiliary Contact Block - (NC/NC) - for side mounting. If using Compact Bus Bar System, choose bus bar with 54mm spacing.		KT4-C-ASA02

Accessory	Description	Catalog Number
○■^○	Adaptor Plate Provides capability to base mount one KT4	KT4-C-N12
	Locking Fixture Padlocking attachment for one KT4-25. Locks in the OFF position only. Metal construction. Holds one to three padlocks with 6mm hasps.	КТ4-С-МЗ





Accessories for KT4 (continued from previous page)

A	Description	Wiring Disgrom	AC Coil	Voltage	Cotolog Number
Accessory	Description	Wiring Diagram	50 HZ	60 HZ	Catalog Number
			24V	~	KT4-C-UXK
			~	24V	KT4-C-UXJ
9			~	48V	KT4-C-UXX
		D1 D2	110V	110V	KT4-C-UXKD
	Undervoltage Release Module	F1 Ū<	110V	120V	KT4-C-UXD
	- mounts on right hand side, Prevents KT4 from operating		220230V	240260V	KT4-C-UXF
	unless voltage is present.	h	~	240260V	KT4-C-UXA
		Q1	240V	277V	KT4-C-UXT
			400V	460V	KT4-C-UXN
			415V	480V	KT4-C-UXB
			500V	575V	KT4-C-UXM
			24V	~	KT4-C-SXK
			~	24V	KT4-C-SXJ
9			~	48V	KT4-C-SXX
e		C1 C2	110V	110V	KT4-C-SXKD
C1 C2	Shunt Release Module -	F1 🔁	110V	120V	KT4-C-SXD
	mounts on right hand side.		220230V	240260V	KT4-C-SXF
	Remotely trips the KT4 .	J	~	240260V	KT4-C-SXA
		Q1	240V	277V	KT4-C-SXT
Pool			400V	460V	KT4-C-SXN
-			415V	480V	KT4-C-SXB
			500V	575V	KT4-C-SXM

Accessory	Description	Voltage / Rated Current
	Connecting Module ●- Provides a solid "wireless" connection between a KT4 Motor Circuit Controller and a CA7 contactor. Connects CA7-923	20A

• cULus Approved (File E33916).

Catalog Number

KT4-C-PNC23





Accessories for KT4 (continued from previous page)

Accessory	Description	Enclosure Rating	Catalog No. O
	Enclosures for Surface Mounting -	General Purpose (IP41)	KT4-C-EA41
KT4-C-EA55	Includes ground and neutral terminals.	Watertight (IP55)	KT4-C-EA55
	Enclosure for Flush Mounting - includes protective earth	General Purpose (IP41)	KT4-C-EE41
KT4-C-EE55	and neutral wire terminals.	Watertight (IP55)	KT4-C-EE55
	Enclosures for Surface Mounting - Includes ground and neutral terminals. Enclosure for Flush Mounting - includes protective earth	For use with KT4-C-EA41 and KT4-C-EA55 enclosures	KT4-C-M3E
4111	Includes 4 mounting screws (membrane only, does	For replacement on KT4-C-EA55 or -EE55 or to upgrade KT4-C-EA41 or -EE41 enclosures	KT4-C-N55

Accessory	Description	Kit Catalog No.	For Use With	Assembled Cat No. O
9			KT4-C-EA41	KT4-C-MT-EA41
	Emergency Stop Kit		KT4-C-EE41	KT4-C-MT-EE41
KT4-C-MT-EA55	Twist-To-Release	KT4-C-MT	KT4-C-EA55	KT4-C-MT-EA55
KT4-C-MT-EA55			KT4-C-EE55	KT4-C-MT-EE55
0			KT4-C-EA41	KT4-C-MK-EA41
	Emergency Stop Kit	КТ4-С-МК	KT4-C-EE41	KT4-C-MK-EE41
	Key Release		KT4-C-EA55	KT4-C-MK-EA55
KT4-C-MK-EA55			KT4-C-EE55	KT4-C-MK-EE55

• KT4 Manual Motor Starter Not Included. Consult a Sprecher + Schuh representative for an assembly including a KT4.





Compact Bus Bar System for KT4

Accessory	Description	Catalog Number
	Compact Bus Bar - 45mm spac- ing - Bus bar with 45mm spacing accepts KT4's with <i>or without</i> internally mounted auxiliary or trip signal contact. Rated to 65A (UL)/63A (IEC). Connects two KT4's Connects three KT4's Connects four KT4's Connects five KT4's	KT4-C-W452 KT4-C-W453 KT4-C-W454 KT4-C-W455
	Compact Bus Bar - 54mm spac- ing - Bus bar with 54mm spacing accepts KT4's with side mounted auxiliary contact (type PA-11). Rated to 65A (UL)/63A (IEC). Connects two KT4's Connects three KT4's Connects four KT4's Connects five KT4's	KT4-C-W542 KT4-C-W543 KT4-C-W544 KT4-C-W545
	Supply Block - Provides connec- tion from bus bar to power.	KT4-C-WT
	Blank Space Cover - Covers bus bar connections where no KT4 is mounted.	KT4-C-WS



Technical Information

Standards Approvals

Approvals / Markings

UL. CSA

Tightening torque

Rated Insulation Voltage IEC, SEV, VDE0660

Rated Impulse Withstand Voltage



Shipping, RINA, KEMA

CE, cULus Listed

UL 508; CSA22.2; EN/IEC 60947-1/-2/-4/-5-1/ UL, CSA, CE, SEV, Germ. Lloyd, CEBEC, PTB,

DEMKO, SEMKO, SETI, NEMKO, Bureau Veritas, Lloyd's Register of Shipping, Maritime Register of

<u>KT4...</u>

690

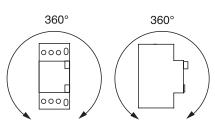
600

[V]

[V]

KT4 Manual Motor Starter

Mounting Position - KT4



natou imparoo minotana ronago					
Main circuits		6 kV	Weights		
Auxiliary circuits	[]]=]	6 kV 4060	Description	Catalog Number	Τv
Rated Frequency	[Hz]	0.116 (11 ranges)	Manual Motor Starter	KT4-C2A	H
Rated Operating Current Life	[A]	0.110 (11 ranges)	Auxiliary Contact		ť
Mechanical	[onorationa]	100.000	Blocks for Flush	KT4-C-AEA	
Electrical	[operations] [operations]	50.000	Mounting		
	[operations]	,	Auxiliary Contact	1	Ĺ
Switching Frequency Ambient Temperature		Max. 30 operating cycles/hour	 Blocks for Left-side 	KT4-C-ASA	
Storage		-25°C to +80°C	Mounting		
Operation		-25°C to +60°C	Undervoltage Release	KT4-C-UX	
Resistance to climatic change			- Shunt Release	KT4-C-SX	·
Humid heat		40°C, 92%, 56 days	Bus Bar Feeder	KT4-C-WT	
Alternating climatic conditions		23°C, 83%/40°C, 93%, 56 cycles	Terminal		L
Degree of Protection		IP20 (when wired)		KT4-C-W452	L
Impact Resistance (shock)		50g, 11ms		KT4-C-W453	Ļ
Vibration Strength				KT4-C-W454	Ļ
Frequency Range		10150Hz	Compact Bus Bar	KT4-C-W455	Ļ
In all directions		>7.5q	Compact Duo Dai	KT4-C-W542	Ļ
Overload Protection		>7.5y		KT4-C-W543	Ļ
		01		KT4-C-W545	
Tripping Time		Class 10 See time/current curve		KT4-C-W545	Ľ
Phase failure protection			Blank Space Cover	KT4-C-WS	Ļ
Temperature Compensation		-20°C +60°C (70°C=15% current reduction of upper rated current)	Emergency-Stop	KT4-C-MT	Ļ
Magnetic Response		11 x /e max. (fixed setting)	- Push Button	KT4-C-MK	Ļ
		(<i>i.e.</i> max. = max value of the setting range)	Enclosure for Surface Mounting	KT4-C-EA41	;
Total Power dissipation			Enclosure for	1	⊢
Manual motor starter at rated load	[W]	7	Flush Mounting	KT4-C-EA55	
Terminal Connections		-	Button Membrane	KT4-C-EE41	Г
Type of terminals				KT4-C-EE55	Γ
			Indicator Light	KT4-L	Γ
Screwdriver		Position No. 2/Blade No. 3	- Hut (DIN) roil Adoptor	KT4-C-N12	Γ
S (1. c	conductor	1 to 4 mm ² / 16 to 12 AWG	- Hut (DIN) rail Adapter	KT4-C-M3E	Γ
2.0	conductor	1 to 4 mm ² / 16 to 12 AWG	Locking Arrangement	KT4-C-M3	Γ
<u> </u>	conductor	1 to 6 mm ² / 16 to 12 AWG			
	conductor	1 to 6 mm ² / 16 to 12 AWG	_		
5 (1.0	conductor	1.5 to 6 mm ² / 16 to 12 AWG			
2. 0	conductor	1.5 to 6 mm ² / 16 to 12 AWG			

104 g

135 g

3.3 g

g g

250 g

258 g

126 g

134 g 10 g

16 g 19 g 11 g Manual Motor Starters

KT4

Weight

290 g

12 g

SSNA2018

2 to 2.5 Nm / 18 to 22 fb-in





Technical Information

Specifications of Accessorie	KT4-C-AEA Auxiliary Contact Block for Flush Mounting			KT4-C-ASA Auxiliary Contact Block for Left-side Mounting					
Rated Thermal Current / _{th}									
at 40°C ambient temperature	[A]		6	6			1	0	
at 60°C ambient temperature	[A]		4	ļ			(6	
Contact Class Coordination Acc	ording	to NEMA							
(UL/CSA Standards)	[AC] [DC]	B 600 Standard Pilot Duty R 300 Light Pilot Duty				В	600 Standa R 300 Ligh		,
Back-Up Fuses gG, gL	[A]		1	6			1	6	
Rated Supply current	[V]	230/240	400/415	500	690	230/240	400/415	500	690
AC-15	[A]	2	1	0.8	0.5	2	1	0.8	0.5
DC-13	[V]	24	48	110	220	24	48	110	220
	[A]	2	0.6	0.2	0.1	2	0.6	0.2	0.1
Terminal Parts Type of terminals Screwdriver		Pozidrive No.				2 / Blade No. 3			
S (a l. conductor		0.75 to 2.5 mm2 / 18 to 14 AWG			AWG	0.75 to 2.5 mm2 / 18 to 14 AWG			
2. conductor		0.75 to 2.5 mm2 / 18 to 14 AWG				0.75 to 2.5 mm2 / 18 to 14 AWG			
1. conductor		0.75	5 to 4 mm2 ,	/ 18 to 14 A	WG	0.75 to 4 mm2 / 18 to 14 AWG			
2. conductor		0.75	5 to 4 mm2 ,	/ 18 to 14 A	WG	0.75 to 4 mm2 / 18 to 14 AWG			
1. conductor		0.75	5 to 4 mm2 ,	/ 18 to 14 A	WG	0.75	5 to 4 mm2	/ 18 to 14 /	AWG
2. conductor		0.75	5 to 4 mm2 ,	/ 18 to 14 A	WG	0.75 to 4 mm2 / 18 to 14 AWG			
Tightening torque		1	to 1.5 Nm /	9 to 13 fb-	in	1 to 1.5 Nm / 9 to 13 fb-in			

		KT4-C-UX Undervoltage Release Unit for Right-side Mounting	KT4-C-SX Shunt Release for Right-side Mounting	KT4-C-WT Supply Block
Actuating Voltage				
Pull-in		0.8 to 1.1 x U _s	0.7 to 1.1 x U _s	
Drop-out		0.7 to 0.35 x U	~	
Rated Control Voltage	min.	12V 50 Hz, 14V 60 Hz	12V 50 Hz, 14V 60 Hz	
	max.	600V 50 Hz	600V 50 Hz	
On-Time		100 %	100%	
Coil Rating	Pull-in	8.5 VA, 6 W	8.5 VA, 6 W	
	Hold	3 VA, 1.2 W	3 VA, 1.2 W	
Terminal Parts				_₩_
Type of terminals				Ø
Screwdriver		Pozidrive No. 2/Blade No. 3	Pozidrive No. 2/Blade No. 3	Pozidrive No. 2/Blade No. 3
1. conductor		0.75 to 2.5 mm ² / 18 to 14 AWG	0.75 to 2.5 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
2. conductor		0.75 to 2.5 mm ² / 18 to 14 AWG	0.75 to 2.5 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
1. conductor		0.75 to 4 mm ² / 18 to 14 AWG	0.75 to 4 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
2. conductor		0.75 to 4 mm ² / 18 to 14 AWG	0.75 to 4 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
1. conductor		0.75 to 4 mm ² / 18 to 14 AWG	0.75 to 4 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
2. conductor		0.75 to 4 mm ² / 18 to 14 AWG	0.75 to 4 mm ² / 18 to 14 AWG	4 to 16 mm ² / 14 to 6 AWG
Tightening torque		1 to 1.5 Nm / 9 to 13 fb-in	1 to 1.5 Nm / 9 to 13 fb-in	4 Nm / 36 fb-in

		KT4-C-W45 Compact Bus Bar	KT4-C-W54 Compact Bus Bar
Rated Insulation Voltage U_i	[V]	690	690
Rated Thermal Current $I_{\rm th}$	[A]	63	63

		KT4-C-EA41 / -EE41 Enclosure	KT4-C-EA55 / -EE55 Enclosure	KT4-C-L Indicator Light
IP Protection		IP41	IP55 (with seal and protective membrane)	IP54
Ambient Temperature [°C]	- 25+ 40	- 25+ 40	~
Rated Operating Voltage []	V]	~	~	120, 240, 415, 480

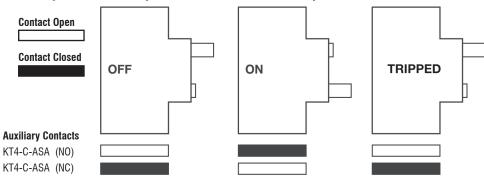




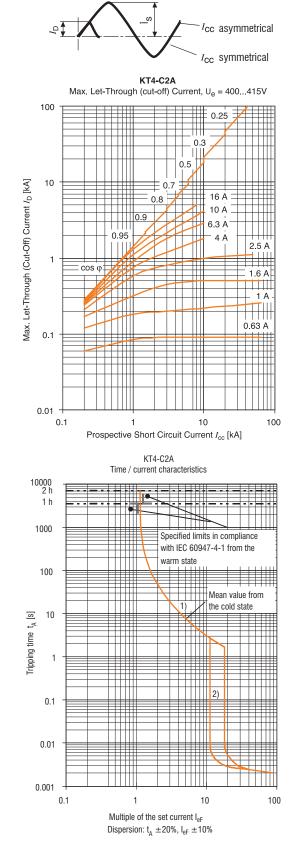
IEC Performance Data (KT4-C2A)

		-A16	-A25	-A40	-A63	-B10	-B16	-B25	-B40	-B63	-C10	-C16
Switching of standard th	hree phase m	otors										
AC-2, AC-3												
230/240V	[kW]	~	~	~	0.06/0.09	0.12	0.18/0.25	0.37	0.55/0.75	1.1/1.5	2.2	3.0/4.0
400/415V	[kW]	0.02	0.06	0.09	0.18/.25	0.25	0.37/0.55	.75	1.1/1.5	2.2	3.0/4.0	5.5/7.5
500V	[kW]	~	~	~	0.18	0.25/0.37	0.55/0.75	1.1	1.5/2.2	2.5/3.0	4.0/6.3	7.5/10
690V	[kW]	~	~	~	0.25	0.37/0.55	0.75/1.1	1.8	2.2/3.0	~	~	~
Back-up fuses												
gG, aM, only if /cc > /cu	1											
230/240V	[A]							~	~	~	~	50
400/415V	[A]			No Fue	o Doguizad			~	~	~	63	50
500V	[A]			NO FUSE	s Required			~	~	63	50	50
690V	[A]							25	35	~	~	~
Ultimate short-circuit b	reaking capa	city /cu										
230/240V	[kA]	65	65	65	65	65	65	50	50	50	50	3
400/415V	[kA]	65	65	65	65	65	65	50	10	10	8	6
400/4131	[[[]]]]	00	00	05	00	00						
500V	[kA]	50	50	50	50	50	50	50	3	10	4.5	4.5
								50 4.5	3 2	10 ~	4.5 ~	4.5 ~
500V 690V	[kA]	50 50	50 50	50	50	50	50		-			
500V 690V	[kA]	50 50 (T4-C2/	50 50	50 50	50 50	50 50	50 50	4.5	2	~	~	~
500V 690V CSA Performanc	[kA] [kA]	50 50	50 50	50	50	50	50		-			
500V 690V CSA Performanc	[kA] [kA]	50 50 (T4-C2/	50 50	50 50	50 50	50 50	50 50	4.5	2	~	~	~
500V 690V CSA Performanc Maximum short-circuit	[kA] [kA]	50 50 (T4-C2/ -A16	50 50 A) -A25	50 50 -A40	50 50 -A63	50 50 - B10	50 50 - B16	4.5 - B25	- B40	~ -B63	-C10	~ -C16
500V 690V CSA Performanc Maximum short-circuit 480V 600V	[kA] [kA] [kA] current [kA]	50 50 (T4-C2/ -A16 42	50 50 A) -A25	50 50 -A40 42	50 50 -A63 42	50 50 - B10 42	50 50 - B16 42	4.5 - B25 42	2 -B40	~ -B63 18	~ -C10 10	- C16
500V 690V CSA Performanc Maximum short-circuit 480V	[kA] [kA] [kA] current [kA]	50 50 (T4-C2/ -A16 42	50 50 A) -A25	50 50 -A40 42	50 50 -A63 42	50 50 - B10 42	50 50 - B16 42	4.5 - B25 42	2 -B40	~ -B63 18	~ -C10 10	- C16
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load	[kA] [kA] [kA] current [kA]	50 50 (T4-C2/ -A16 42	50 50 A) -A25	50 50 -A40 42	50 50 -A63 42	50 50 - B10 42	50 50 - B16 42	4.5 - B25 42 10	2 -B40 18 5	- B63 18 5	- C10 10 5	- C16
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load 1-phase	[kA] [kA] current [kA] [kA]	50 50 (T4-C2/ -A16 42 42	50 50 •A25 42 42 42	50 50 - A40 42 42	50 50 - A63 42 42	50 50 - B10 42 42	50 50 - B16 42 42	4.5 - B25 42	2 -B40	~ -B63 18	~ -C10 10	
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load 1-phase 115V 230V	[kA] [kA] ce Data (I current [kA] [kA] [kA]	50 50 (T4-C2/ -A16 42 42 42	50 50 -A25 42 42 42	-A40 -A40 42 42 -~	50 50 -A63 42 42 42	50 50 -B10 42 42 42	50 50 -B16 42 42 42	4.5 - B25 42 10 1/10	2 -B40 18 5 1/8	- B63 18 5 1/4	- C10 10 5 1/2	- -C16 5 5
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load 1-phase 115V 230V	[kA] [kA] ce Data (I current [kA] [kA] [kA]	50 50 (T4-C2/ -A16 42 42 42	50 50 -A25 42 42 42	-A40 -A40 42 42 -~	50 50 -A63 42 42 42	50 50 -B10 42 42 42	50 50 -B16 42 42 42	4.5 - B25 42 10 1/10	2 -B40 18 5 1/8	- B63 18 5 1/4	- C10 10 5 1/2	- -C16 5 5
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load 1-phase 115V 230V 3-phase	[kA] [kA] [kA] current [kA] [kA] [kA]	50 50 (T4-C2/ -A16 42 42 42 ~ ~	50 50 A) -A25 42 42 42 	-A40 -A40 42 42 -~	50 50 -A63 42 42 42 	50 50 -B10 42 42 42	50 50 -B16 42 42 42 1/10	4.5 -B25 42 10 1/10 1/6	2 -B40 18 5 1/8 1/8 1/3	~ -B63 18 5 1/4 3/4	- C10 10 5 1/2 1 1/2	-
500V 690V CSA Performanc Maximum short-circuit 480V 600V Motor load 1-phase 115V 230V 3-phase 200V	[kA] [kA] [kA] current [kA] [kA]	50 50 (T4-C2/ -A16 42 42 42 ~ ~	50 50 -A25 42 42 42 	-A40 -A40 42 42 -~ -~	50 50 -A63 42 42 42 	50 50 -B10 42 42 	50 50 -B16 42 42 	4.5 -B25 42 10 1/10 1/6 1/2	2 -B40 18 5 1/8 1/3 3/4	~ -B63 18 5 1/4 3/4 1 1/2	~ -C10 10 5 1/2 1 1/2 2	- C16 5 5 1 3 3

Auxiliary Contact & Trip Indicator Contact Development o



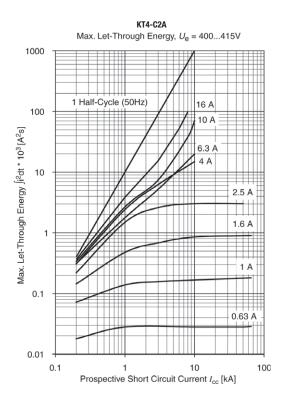
• KT4 leaves the factory in the Auto Reset mode. This means the Off and Trip positions are the same. If a true trip position is required, consult your Sprecher + Schuh representative.



sprecher+ schuh

> The KT4-C2A manual motor starter limits short-circuit current I_{cc} (prospective shortcircuit current). $I_{\rm D}$ is the maximum cut-off current (highest instantaneous value of the limited short-circuit current). This value is indicated in the following diagram as a function of the system short-circuit current.

Correspondingly the maximum forward j² dt energy is limited. This value is indicated in the following diagram as a function of the system short-circuited current.



1) Operating Current of Thermal Releases:

The adjustable inverse bimetal trip reliability protects motors against overloads. The curve shows the mean operating current at an ambient temperature of 20°C starting from cold.

In equipment at operating temperature, release time is less than or equal to release time from the cold state.

2) Operating Current of Magnetic Releases:

Electromagnetic instantaneous releases react at a fixed tripping current.

At the upper thermal release setting, this tripping current is 11 times the set cur rent.

Current To Be Set:

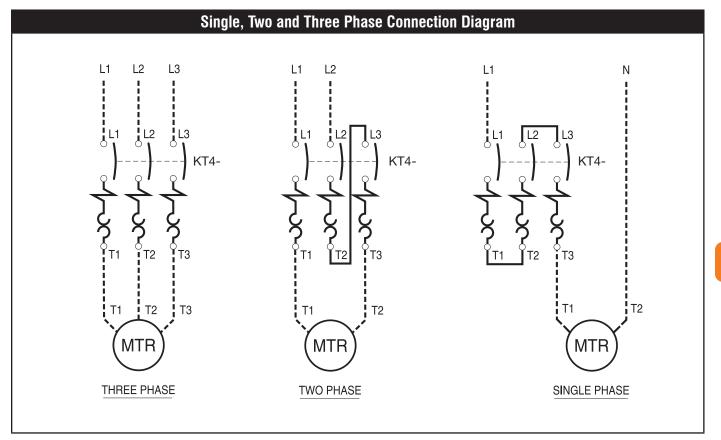
Thermal releases meet the requirements for a thermal release of a starter in accordance with IEC 60947-4-1 f. If a different value is specified (such as reduced $I_{\rm e}$ in motors with an ambient temperature higher than 40°C or a site altitude >2000 m above sea level), the rated operating current $I_{\rm e}$ must be adjusted.

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Wiring Diagrams

KT4 Manual Motor Starter

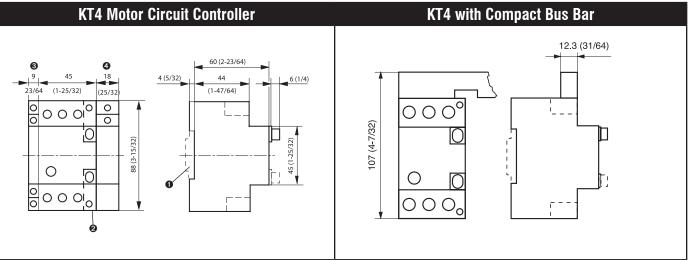


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Dimensions are in millimeters (except where noted). Dimensions not intended for manufacturing purposes.

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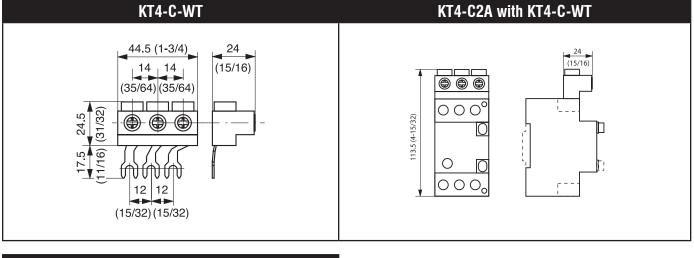
• DIN rail (EN 50022-35)

KT4 w/KT4-C-AEA (no dimension change)

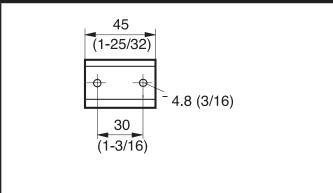
❸ KT4-C-ASA

KT4 Manual Motor Starters

• KT4-C-SXB or KT4-C-UXA

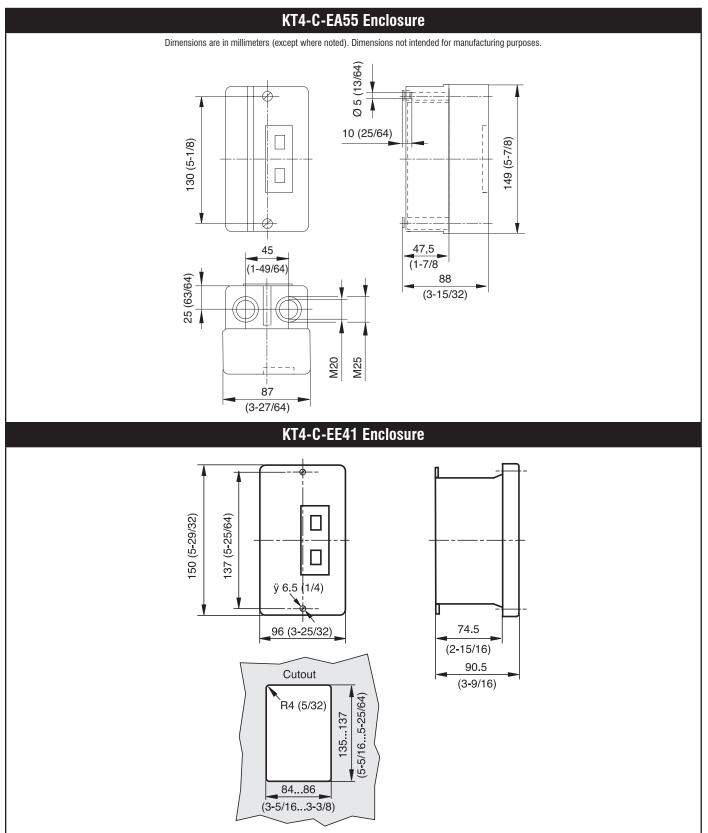


KT4<u>-C-N12</u>











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KT4 Manual Motor Starter

Notes