

# Enclosed Motor Controllers and Molded Case Circuit Breakers



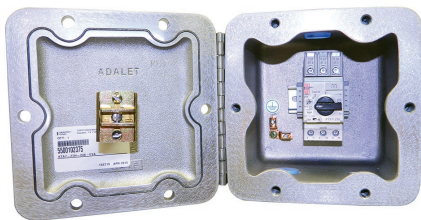
KTA7 Type-E Self Protected Manual Motor Controllers Page F89



Explosion-Proof Motor Controllers



KTA7\_EX Page F93



KTA7\_EZ Page F94

The following pages contain a selection of single enclosed KTA7 & KTC7 motor controllers which can be applied as an individual Manual Self-Protected Combination Motor Controller or as an individual Manual Motor Starter dependent on the ratings of the individual unit.

- A Self-protected Combination Motor Controller (UL508 Construction Type E) performs all the functions of a Manual Combo starter including a UL approved means "Disconnect" with lockable and defeatable handle mechanism, short-circuit protection and overload protection for motor applications.
- A UL508 Manual Motor Controller is a manual motor starter including a motor disconnect combined with an overload relay.

Both can be combined with auxiliary contacts, shunt-trip or under-voltage trip units to meet your application requirements. The section that follows includes non-metallic enclosures, metallic enclosures and explosion-proof enclosures.

## Enclosed Molded Case Circuit Breakers

The following pages contain a selection of individual enclosed KTU7 molded case circuit breakers for the protection of non-motor loads. KTU7 is a 480Y/277Volt or 600Y/347 volt UL489 approved circuit breaker and the selection of enclosures or combined with matching environmentally approved thru-the-door handle disconnect mechanism which also complies with UL489 standards. KTU7 offers at least 65 KAIC withstand ratings which exceeds those offered by many 600 Volt



KTU7 Molded Case Circuit Breakers Page F95

Class Molded Case Circuit Breakers which are larger and more expensive. Enclosed KTU7 can be combined with auxiliary contacts, shunt-trip or under-voltage trip units to meet your application requirements.

## Enclosed Type E/F Combination Starters

KTA7 or KTC7 can be applied in combination with a CA7 contactor for remote control and an enclosure with matching environmentally approved thru-the-door handle disconnect mechanism to meet all requirements for a Construction Type E or F Combination Starter.

The following pages contain a selection of individual Combo starters which are smaller and less expensive than Classic Construction Type A (Fusible), or Type C (Thermal-magnetic Molded Case Circuit Breaker) as offered in Section C of this catalog. The following types are offered:

- Non-metallic enclosed Combo KwikStarter CX7 and CXU7 with AC or DC coils available as factory assembled or in kit form for field assembly
  - Metallic enclosed Combo CX7 and CXU7 with AC or DC coils
  - Explosion-proof enclosed CX7 and CXU7 with AC or DC coils
- A variety of modifications are available.



CX7 Ecombo KwikStarter Page F98



CX7 Combination Controllers Page F105

Enclosed KTA7 - IP65

Amp / Horsepower Rating						Non-metallic (IP65) Enclosure		
Max. Horsepower ①②③						O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ④
Single Phase		Three Phase						
115V	230V	200V	230V	460V	575V			
<b>KTA7-25S/32S Standard Interrupting Capacity</b>								
~	~	~	~	~	~	0.10...0.16	2.1	KTA7-25S-0.16A-CG ☒
~	~	~	~	~	~	0.16...0.25	3.3	KTA7-25S-0.25A-CG ☒
~	~	~	~	~	1/4	0.25...0.40	5.2	KTA7-25S-0.4A-CG ☒
~	~	~	~	1/4	1/3	0.40...0.63	8.2	KTA7-25S-0.63A-CG ☒
~	~	~	~	1/2	3/4	0.63...1.0	13	KTA7-25S-1A-CG ☒
~	1/10	1/4	1/3	1	1	1.0...1.6	21	KTA7-25S-1.6A-CG ☒
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25S-2.5A-CG ☒
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25S-4A-CG ☒
1/4	3/4	1-1/2	2	5	5 ☒	4...6.3	82	KTA7-25S-6.3A-CG ☒
1/2	1-1/2	3	3	7-1/2	10 ☒	6.3...10	130	KTA7-25S-10A-CG ☒
1	3	5	5	10	15 ☒	10...16	208	KTA7-25S-16A-CG ☒
1-1/2	3	5	7-1/2	15	20 ☒	14.5...20	260	KTA7-25S-20A-CG ☒
2	3	7-1/2 ☒	7-1/2 ☒	20 ☒	20 ☒	18...25	325	KTA7-25S-25A-CG ☒ ☒
2	5	7-1/2 ☒	10 ☒	20 ☒	25 ☒	24...29	409	KTA7-32S-29A-CG ☒ ☒
3	5	7-1/2 ☒	10 ☒	25 ☒	30 ☒	27...32	448	KTA7-32S-32A-CG ☒ ☒



**Includes:**

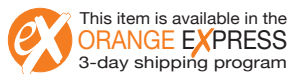
- Non-metallic (IP65) enclosure with integrated IP65 operator – watertight, dusttight
- KT7-25S/32S (Standard Interrupting Capacity) “Type E” Self-protected Combination Manual Controller ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1)
- Gray and black IP65 handle ④ ⑤

**Enclosure Only**

Description	Catalog Number
Gray/Black handle	KT7-AYTG2
Red/Yellow handle	KT7-AYTJ2
Accessory	
Ground (PE) Terminal	KS7-AYMTN

**Modifications (Factory Assembled)**

Description	Add Suffix to Cat. Number
<b>KT7 Auxiliaries &amp; Trip Contacts, Front Mount 300V max.</b>	
1 NO Auxiliary	-A10
1 NC Auxiliary	-A01
1 NO + 1 NC Auxiliary	-A11
2 NO Auxiliaries	-A20
1 NO SC+OL + 1 NC Auxiliary	-T10A01
1 NO SC+OL + 1 NO Auxiliary	-T10A10
<b>Side Mount 600V max.</b>	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
<b>Additional KT7 Trip Contacts, Side Mount 600V max.</b>	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
<b>Accessories</b>	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*



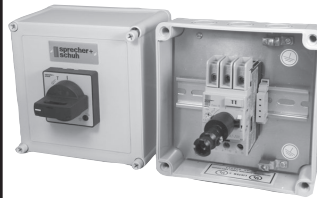
- 1 Horsepower ratings shown in the table above are for reference. **The final selection of the controller depends on the actual motor full load current and service factor.**
  - For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.
- 2 Magnetic trip is fixed at 13x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.
- 3 KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.
- 4 A red and yellow handle may be selected instead of the standard gray and black handle. Change “CG” suffix to “CJ”. Ex: Change KTA7-25S-0.16-CG to KTA7-25S-0.16-CJ.
- 5 Handles are built-in to the enclosure and are not available as components.
- 6 Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.

**-UA.-AA Coil Codes (\* )**

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
☒ 24V	21V	24V
☒ 28V	24V	28V
☒ 120V	105V	120V
127V	110V	127V
230V	220...230V	~
☒ 240V	~	240...260V
277V	240V	277V
460V	380...400V	400...460V
☒ 480V	415V	480V
☒ 600V	550V	600V

### Enclosed KTA7 - Type 4 / 4X / 12

Amp / Horsepower Rating							Non-metallic, Type 4 / 4X / 12 Enclosure	
Max. Horsepower ①②③						O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ④
Single Phase		Three Phase						
115V	230V	200V	230V	460V	575V			
<b>KTA7-25S/32S Standard Interrupting Capacity</b>								
~	~	~	~	~	~	0.10...0.16	2.1	KTA7-25S-0.16A-VG ☒
~	~	~	~	~	~	0.16...0.25	3.3	KTA7-25S-0.25A-VG ☒
~	~	~	~	~	1/4	0.25...0.40	5.2	KTA7-25S-0.4A-VG ☒
~	~	~	~	1/4	1/3	0.40...0.63	8.2	KTA7-25S-0.63A-VG ☒
~	~	~	~	1/2	3/4	0.63...1.0	13	KTA7-25S-1A-VG ☒
~	1/10	1/4	1/3	1	1	1.0...1.6	21	KTA7-25S-1.6A-VG ☒
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25S-2.5A-VG ☒
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25S-4A-VG ☒
1/4	3/4	1-1/2	2	5	5 <sup>⑤</sup>	4...6.3	82	KTA7-25S-6.3A-VG ☒
1/2	1-1/2	3	3	7-1/2	10 <sup>⑤</sup>	6.3...10	130	KTA7-25S-10A-VG ☒
1	3	5	5	10	15 <sup>⑤</sup>	10...16	208	KTA7-25S-16A-VG ☒
1-1/2	3	5	7-1/2	15	20 <sup>⑤</sup>	14.5...20	260	KTA7-25S-20A-VG ☒
2	3	7-1/2 <sup>⑤</sup>	7-1/2 <sup>⑤</sup>	20 <sup>⑤</sup>	20 <sup>⑤</sup>	18...25	325	KTA7-25S-25A-VG ⑤ ☒
2	5	7-1/2 <sup>⑤</sup>	10 <sup>⑤</sup>	20 <sup>⑤</sup>	25 <sup>⑤</sup>	24...29	406	KTA7-32S-29A-VG ⑤ ☒
3	5	7-1/2 <sup>⑤</sup>	10 <sup>⑤</sup>	25 <sup>⑤</sup>	30 <sup>⑤</sup>	27...32	448	KTA7-32S-32A-VG ⑤ ☒
<b>KTA7-25H/32H High Interrupting Capacity</b>								
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25H-2.5A-VG ☒
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25H-4A-VG ☒
1/4	1/2	1-1/2	2	5	5	4...6.3	82	KTA7-25H-6.3A-VG ☒
1/2	1-1/2	3	3	7-1/2	10	6.3...10	130	KTA7-25H-10A-VG ☒
1	3	5	5	10	15	10...16	208	KTA7-25H-16A-VG ☒
1-1/2	3	5	7-1/2	15	20 <sup>⑤</sup>	14.5...20	260	KTA7-25H-20A-VG ☒
2	3	7-1/2	7-1/2	20	20 <sup>⑤</sup>	18...25	325	KTA7-25H-25A-VG ☒
2	5	7-1/2 <sup>⑤</sup>	10 <sup>⑤</sup>	20 <sup>⑤</sup>	25 <sup>⑤</sup>	24...29	406	KTA7-32H-29A-VG ⑤ ☒
3	5	7-1/2 <sup>⑤</sup>	10 <sup>⑤</sup>	25 <sup>⑤</sup>	30 <sup>⑤</sup>	27...32	448	KTA7-32H-32A-VG ⑤ ☒
<b>KTA7-45H High Interrupting Capacity</b>								
1/2	1-1/2	3	3	7-1/2	7-1/2	6.3...10	130	KTA7-45H-10A-VG
1	3	5	5	10	10	10...16	208	KTA7-45H-16A-VG
1-1/2	3	5	7-1/2	15	15	14.5...20	260	KTA7-45H-20A-VG
2	3	~	10	20	20	18...25	325	KTA7-45H-25A-VG
3	5	7-1/2	10	25	30	23...32	416	KTA7-45H-32A-VG
3	7-1/2	10	15	30	40 <sup>⑤</sup>	32...45	585	KTA7-45H-45A-VG



#### Includes:

- Type 4 / 4X / 12 enclosure – watertight, dusttight, corrosion resistant
- KTA7 “Type E” Self-protected Combination Manual Controller (Standard Interrupting Capacity) ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1 or KT7-45-TE)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④

#### Modifications (Factory Assembled) ☒

Description	Add Suffix to Cat. Number
<b>KT7 Auxiliaries &amp; Trip Contacts, Front Mount 300V max.</b> 1 NO Auxiliary 1 NC Auxiliary 1 NO + 1 NC Auxiliary 2 NO Auxiliaries 1 NO SC+OL + 1 NC Auxiliary 1 NO SC+OL + 1 NO Auxiliary	-A10 -A01 -A11 -A20 -T10A01 -T10A10
<b>Side Mount 600V max.</b> 2 NC Auxiliaries 2 NO Auxiliaries 1 NO + 1 NC Auxiliary	-AS02 -AS20 -AS11
<b>Additional KT7 Trip Contacts, Side Mount 600V max.</b> 1 NO SC+OL+1 NO SC 1 NO SC+OL+1 NC SC 1 NC SC+OL+1 NO SC	-R00 -R01 -R10
<b>Accessories</b> Undervoltage Release Module Shunt Release Module	-UA-* -AA-*

#### -UA..-AA Coil Codes (\*)

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
☒ 24V	21V	24V
☒ 28V	24V	28V
☒ 120V	105V	120V
☒ 127V	110V	127V
☒ 230V	220...230V	~
☒ 240V	~	240...260V
☒ 277V	240V	277V
☒ 460V	380...400V	400...460V
☒ 480V	415V	480V
☒ 600V	550V	600V

This item is available in the **ORANGE EXPRESS** 3-day shipping program

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.

③ KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.

④ A red and yellow handle may be selected instead of the standard gray and black handle. Change “VG” suffix to “VJ”. Ex: Change KTA7-25S-0.16-VG to KTA7-25S-0.16-VJ.

⑤ Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.

**Enclosed KTA7 - Type 12**

Amp / Horsepower Rating						Painted Steel, Type 12 Enclosure			
Max. Horsepower ①②③						O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ④	
Single Phase		Three Phase							
115V	230V	200V	230V	460V	575V				
<b>KTA7-25S/32S Standard Interrupting Capacity</b>									
~	~	~	~	~	~	0.10...0.16	2.1	<b>KTA7-25S-0.16A-DG</b> ⓧ	
~	~	~	~	~	~	0.16...0.25	3.3	<b>KTA7-25S-0.25A-DG</b> ⓧ	
~	~	~	~	~	1/4	0.25...0.40	5.2	<b>KTA7-25S-0.4A-DG</b> ⓧ	
~	~	~	~	1/4	1/3	0.40...0.63	8.2	<b>KTA7-25S-0.63A-DG</b> ⓧ	
~	~	~	~	1/2	3/4	0.63...1.0	13	<b>KTA7-25S-1A-DG</b> ⓧ	
~	1/10	1/4	1/3	1	1	1.0...1.6	21	<b>KTA7-25S-1.6A-DG</b> ⓧ	
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	<b>KTA7-25S-2.5A-DG</b> ⓧ	
1/8	1/3	1	1	3	3	2.5...4	52	<b>KTA7-25S-4A-DG</b> ⓧ	
1/4	3/4	1-1/2	2	5	5 <sup>⓪</sup>	4...6.3	82	<b>KTA7-25S-6.3A-DG</b> ⓧ	
1/2	1-1/2	3	3	7-1/2	10 <sup>⓪</sup>	6.3...10	130	<b>KTA7-25S-10A-DG</b> ⓧ	
1	3	5	5	10	15 <sup>⓪</sup>	10...16	208	<b>KTA7-25S-16A-DG</b> ⓧ	
1-1/2	3	5	7-1/2	15	20 <sup>⓪</sup>	14.5...20	260	<b>KTA7-25S-20A-DG</b> ⓧ	
2	3	7-1/2 <sup>⓪</sup>	7-1/2 <sup>⓪</sup>	20 <sup>⓪</sup>	20 <sup>⓪</sup>	18...25	325	<b>KTA7-25S-25A-DG</b> ⓪ ⓧ	
2	5	7-1/2 <sup>⓪</sup>	10 <sup>⓪</sup>	20 <sup>⓪</sup>	25 <sup>⓪</sup>	24...29	406	<b>KTA7-32S-29A-DG</b> ⓪ ⓧ	
3	5	7-1/2 <sup>⓪</sup>	10 <sup>⓪</sup>	25 <sup>⓪</sup>	30 <sup>⓪</sup>	27...32	448	<b>KTA7-32S-32A-DG</b> ⓪ ⓧ	
<b>KTA7-25H/32H High Interrupting Capacity</b>									
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	<b>KTA7-25H-2.5A-DG</b> ⓧ	
1/8	1/3	1	1	3	3	2.5...4	52	<b>KTA7-25H-4A-DG</b> ⓧ	
1/4	1/2	1-1/2	2	5	5	4...6.3	82	<b>KTA7-25H-6.3A-DG</b> ⓧ	
1/2	1-1/2	3	3	7-1/2	10	6.3...10	130	<b>KTA7-25H-10A-DG</b> ⓧ	
1	3	5	5	10	15	10...16	208	<b>KTA7-25H-16A-DG</b> ⓧ	
1-1/2	3	5	7-1/2	15	20 <sup>⓪</sup>	14.5...20	260	<b>KTA7-25H-20A-DG</b> ⓧ	
2	3	7-1/2	7-1/2	20	20 <sup>⓪</sup>	18...25	325	<b>KTA7-25H-25A-DG</b> ⓧ	
2	5	7-1/2 <sup>⓪</sup>	10 <sup>⓪</sup>	20 <sup>⓪</sup>	25 <sup>⓪</sup>	24...29	406	<b>KTA7-32H-29A-DG</b> ⓪ ⓧ	
3	5	7-1/2 <sup>⓪</sup>	10 <sup>⓪</sup>	25 <sup>⓪</sup>	30 <sup>⓪</sup>	27...32	448	<b>KTA7-32H-32A-DG</b> ⓪ ⓧ	



**Includes:**

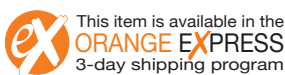
- Type 12 enclosure – dusttight
- KT7-25S/32S (Standard Interrupting Capacity) “Type E” Self-protected Combination Manual Controller ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④

**Modifications (Factory Assembled) ⓧ**

Description	Add Suffix to Cat. Number
<b>KT7 Auxiliaries &amp; Trip Contacts, Front Mount 300V max.</b>	
1 NO Auxiliary	-A10
1 NC Auxiliary	-A01
1 NO + 1 NC Auxiliary	-A11
2 NO Auxiliaries	-A20
1 NO SC+OL + 1 NC Auxiliary	-T10A01
1 NO SC+OL + 1 NO Auxiliary	-T10A10
<b>Side Mount 600V max.</b>	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
<b>Additional KT7 Trip Contacts, Side Mount 600V max.</b>	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
<b>Accessories</b>	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*

**-UA..-AA Coil Codes (\*)**

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
ⓧ 24V	21V	24V
ⓧ 28V	24V	28V
ⓧ 120V	105V	120V
ⓧ 127V	110V	127V
ⓧ 230V	220...230V	~
ⓧ 240V	~	240...260V
ⓧ 277V	240V	277V
ⓧ 460V	380...400V	400...460V
ⓧ 480V	415V	480V
ⓧ 600V	550V	600V



① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

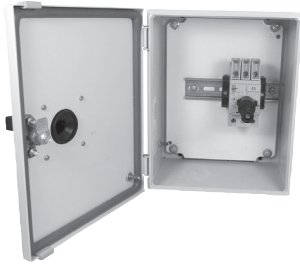
② Magnetic trip is fixed at 13x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.

③ KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.

④ A red and yellow handle may be selected instead of the standard gray and black handle. Change “DG” suffix to “DJ”. Ex: Change KTA7-25S-0.16-DG to KTA7-25S-0.16-DJ.

⑤ Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.

#### Enclosed KTA7 - Type 4 / 12

Amp / Horsepower Rating						Painted Steel, Type 4 / 12 Enclosure			
						Max. Horsepower ①②③			
						Single Phase		Three Phase	
115V	230V	200V	230V	460V	575V				
<b>KTA7-25S/32S Standard Interrupting Capacity</b>									
~	~	~	~	~	~	0.10...0.16	2.1	KTA7-25S-0.16A-WG	⊗
~	~	~	~	~	~	0.16...0.25	3.3	KTA7-25S-0.25A-WG	⊗
~	~	~	~	~	1/4	0.25...0.40	5.2	KTA7-25S-0.4A-WG	⊗
~	~	~	~	~	1/3	0.40...0.63	8.2	KTA7-25S-0.63A-WG	⊗
~	~	~	~	1/2	3/4	0.63...1.0	13	KTA7-25S-1A-WG	⊗
~	1/10	1/4	1/3	1	1	1.0...1.6	21	KTA7-25S-1.6A-WG	⊗
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25S-2.5A-WG	⊗
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25S-4A-WG	⊗
1/4	3/4	1-1/2	2	5	5 <sup>ⓐ</sup>	4...6.3	82	KTA7-25S-6.3A-WG	⊗
1/2	1-1/2	3	3	7-1/2	10 <sup>ⓐ</sup>	6.3...10	130	KTA7-25S-10A-WG	⊗
1	3	5	5	10	15 <sup>ⓐ</sup>	10...16	208	KTA7-25S-16A-WG	⊗
1-1/2	3	5	7-1/2	15	20 <sup>ⓐ</sup>	14.5...20	260	KTA7-25S-20A-WG	⊗
2	3	7-1/2 <sup>ⓐ</sup>	7-1/2 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	18...25	325	KTA7-25S-25A-WG	ⓐ ⊗
2	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	24...29	406	KTA7-32S-29A-WG	ⓐ ⊗
3	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	30 <sup>ⓐ</sup>	27...32	448	KTA7-32S-32A-WG	ⓐ ⊗
<b>KTA7-25H/32H High Interrupting Capacity</b>									
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25H-2.5A-WG	⊗
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25H-4A-WG	⊗
1/4	1/2	1-1/2	2	5	5	4...6.3	82	KTA7-25H-6.3A-WG	⊗
1/2	1-1/2	3	3	7-1/2	10	6.3...10	130	KTA7-25H-10A-WG	⊗
1	3	5	5	10	15	10...16	208	KTA7-25H-16A-WG	⊗
1-1/2	3	5	7-1/2	15	20 <sup>ⓐ</sup>	14.5...20	260	KTA7-25H-20A-WG	⊗
2	3	7-1/2	7-1/2	20	20 <sup>ⓐ</sup>	18...25	325	KTA7-25H-25A-WG	⊗
2	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	24...29	406	KTA7-32H-29A-WG	ⓐ ⊗
3	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	30 <sup>ⓐ</sup>	27...32	448	KTA7-32H-32A-WG	ⓐ ⊗
<b>KTA7-45H High Interrupting Capacity</b>									
1/2	1-1/2	3	3	7-1/2	7-1/2	6.3...10	130	KTA7-45H-10A-WG	
1	3	5	5	10	10	10...16	208	KTA7-45H-16A-WG	
1-1/2	3	5	7-1/2	15	15	14.5...20	260	KTA7-45H-20A-WG	
2	3	~	10	20	20	18...25	325	KTA7-45H-25A-WG	
3	5	7-1/2	10	25	30	23...32	416	KTA7-45H-32A-WG	
3	7-1/2	10	15	30	40 <sup>ⓐ</sup>	32...45	585	KTA7-45H-45A-WG	

#### Includes:

- Type 4 / 12 enclosure – watertight, dusttight
- KT7-25S/32S (Standard Interrupting Capacity) “Type E” Self-protected Combination Manual Controller ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1 or KT7-45-TE)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT7-HTN) ④

#### Modifications (Factory Assembled) ⊗

Description	Add Suffix to Cat. Number
<b>KT7 Auxiliaries &amp; Trip Contacts, Front Mount 300V max.</b>	
1 NO Auxiliary	-A10
1 NC Auxiliary	-A01
1 NO + 1 NC Auxiliary	-A11
2 NO Auxiliaries	-A20
1 NO SC+OL + 1 NC Auxiliary	-T10A01
1 NO SC+OL + 1 NO Auxiliary	-T10A10
<b>Side Mount 600V max.</b>	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
<b>Additional KT7 Trip Contacts, Side Mount 600V max.</b>	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
<b>Accessories</b>	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*

#### -UA..-AA Coil Codes (\*)

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
⊗ 24V	21V	24V
⊗ 28V	24V	28V
⊗ 120V	105V	120V
⊗ 127V	110V	127V
⊗ 230V	220...230V	~
⊗ 240V	~	240...260V
⊗ 277V	240V	277V
⊗ 460V	380...400V	400...460V
⊗ 480V	415V	480V
⊗ 600V	550V	600V

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.


② Magnetic trip is fixed at 13x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.

③ KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.

④ A red and yellow handle may be selected instead of the standard gray and black handle. Change “WG” suffix to “WJ”. Ex: Change KTA7-25S-0.16-WG to KTA7-25S-0.16-WJ.

⑤ Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.

**KTA7 Explosion Proof Motor Controllers - NEMA Type 4/7/9**

Amp / Horsepower Rating								
Max. Horsepower ①②③						O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number
Single Phase		Three Phase						
115V	230V	200V	230V	460V	575V			
KTA7-25S Standard Interrupting Capacity								
~	~	~	~	~	~	0.10...0.16	2.1	KTA7-25S-0.16A-EX
~	~	~	~	~	~	0.16...0.25	3.3	KTA7-25S-0.25A-EX
~	~	~	~	~	1/4	0.25...0.40	5.2	KTA7-25S-0.4A-EX
~	~	~	~	1/4	1/3	0.40...0.63	8.2	KTA7-25S-0.63A-EX
~	~	~	~	1/2	3/4	0.63...1.0	13	KTA7-25S-1A-EX
~	1/10	1/4	1/3	1	1	1.0...1.6	21	KTA7-25S-1.6A-EX
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25S-2.5A-EX
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25S-4A-EX
1/4	3/4	1-1/2	2	5	5	4...6.3	82	KTA7-25S-6.3A-EX
1/2	1-1/2	3	3	7-1/2	10	6.3...10	130	KTA7-25S-10A-EX
1	3	5	5	10	15	10...16	208	KTA7-25S-16A-EX
1-1/2	3	5	7-1/2	15	20	14.5...20	260	KTA7-25S-20A-EX
2	3	7-1/2	7-1/2	20	20	18...25	325	KTA7-25S-25A-EX
2	5	7-1/2	10	20	25	24...29	406	KTA7-32S-29A-EX
3	5	7-1/2	10	25	30	27...32	448	KTA7-32S-32A-EX

**Includes:**

- Class I, Div 1, 2, Group C, D  
Class II, Div 1, 2, Group E, F & G enclosure  
Class III  
NEMA Type 4/7/9
- KT7-25S/32S (Standard interrupting capacity) "Type E" Self-protected Combination Manual Motor Controller ④
- Terminal Adaptor for Type E Applications (Cat.# KT7-25-TE1)

**Modifications (Factory Assembled) ⑤**

KT7 Auxiliaries & Trip Contacts	Add Suffix to Cat. Number
<b>Front Mount 300V max.</b>	
1 NO Auxiliary	-A10
1 NC Auxiliary	-A01
1 NO + 1 NC Auxiliary	-A11
2 NO Auxiliaries	-A20
1 NO SC+OL + 1 NC Auxiliary	-T10A01
1 NO SC+OL + 1 NO Auxiliary	-T10A10
<b>Side Mount 600V max.</b>	
1 NO + 1 NC Auxiliary	-AS11
2 NO Auxiliaries	-AS20
1 NC SC+OL + 1 NO Auxiliary	-R10
1 NC SC+OL + 1 NC Auxiliary	-R11
<b>Enclosure Modifications</b>	
Breather/Drain	-BD

① Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.

- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.

② Magnetic trip is fixed at 13x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.

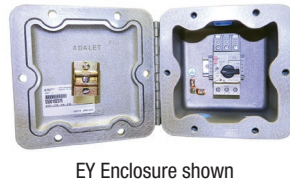
③ KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.

④ Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.

⑤ -UA\* and -AA\* options not possible in the -EX Enclosure.

**KTA7 Explosion Proof Motor Controllers – NEMA Type 4/7/9 with Gasket**

Amp / Horsepower Rating							O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number
Single Phase		Three Phase							
115V	230V	200V	230V	460V	575V				
<b>KTA7-25S Standard Interrupting Capacity</b>									
~	~	~	~	~	~	0.10...0.16	2.1	KTA7-25S-0.16A-EY	
~	~	~	~	~	~	0.16...0.25	3.3	KTA7-25S-0.25A-EY	
~	~	~	~	~	1/4	0.25...0.40	5.2	KTA7-25S-0.4A-EY	
~	~	~	~	1/4	1/3	0.40...0.63	8.2	KTA7-25S-0.63A-EY	
~	~	~	~	1/2	3/4	0.63...1.0	13	KTA7-25S-1A-EY	
~	1/10	1/4	1/3	1	1	1.0...1.6	21	KTA7-25S-1.6A-EY	
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25S-2.5A-EY	
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25S-4A-EY	
1/4	3/4	1-1/2	2	5	5 <sup>ⓐ</sup>	4...6.3	82	KTA7-25S-6.3A-EY	
1/2	1-1/2	3	3	7-1/2	10 <sup>ⓐ</sup>	6.3...10	130	KTA7-25S-10A-EY	
1	3	5	5	10	15 <sup>ⓐ</sup>	10...16	208	KTA7-25S-16A-EY	
1-1/2	3	5	7-1/2	15	20 <sup>ⓐ</sup>	14.5...20	260	KTA7-25S-20A-EY	
2	3	7-1/2 <sup>ⓐ</sup>	7-1/2 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	18...25	325	KTA7-25S-25A-EY	
2	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	24...29	406	KTA7-32S-29A-EY	
3	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	30 <sup>ⓐ</sup>	27...32	448	KTA7-32S-32A-EY	
<b>KTA7-25H High Interrupting Capacity</b>									
1/10	1/6	1/2	3/4	1-1/2	2	1.6...2.5	33	KTA7-25H-2.5A-EY	
1/8	1/3	1	1	3	3	2.5...4	52	KTA7-25H-4A-EY	
1/4	1/2	1-1/2	2	5	5	4...6.3	82	KTA7-25H-6.3A-EY	
1/2	1-1/2	3	3	7-1/2	10	6.3...10	130	KTA7-25H-10A-EY	
1	3	5	5	10	15	10...16	208	KTA7-25H-16A-EY	
1-1/2	3	5	7-1/2	15	20 <sup>ⓐ</sup>	14.5...20	260	KTA7-25H-20A-EY	
2	3	7-1/2	7-1/2	20	20 <sup>ⓐ</sup>	18...25	325	KTA7-25H-25A-EY	
2	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	20 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	24...29	406	KTA7-32H-29A-EY	
3	5	7-1/2 <sup>ⓐ</sup>	10 <sup>ⓐ</sup>	25 <sup>ⓐ</sup>	30 <sup>ⓐ</sup>	27...32	448	KTA7-32H-32A-EY	
<b>KTA7-45H High Interrupting Capacity</b>									
1/2	1-1/2	3	3	7-1/2	7-1/2	6.3...10	130	KTA7-45H-10A-EZ	
1	3	5	5	10	10	10...16	208	KTA7-45H-16A-EZ	
1-1/2	3	5	7-1/2	15	15	14.5...20	260	KTA7-45H-20A-EZ	
2	3	~	10	20	20	18...25	325	KTA7-45H-25A-EZ	
3	5	7-1/2	10	25	30	23...32	416	KTA7-45H-32A-EZ	
3	7-1/2	10	15	30	40 <sup>ⓐ</sup>	32...45	585	KTA7-45H-45A-EZ	



EY Enclosure shown

**Includes:**

- Class I, Div 1, 2, Group C, D  
Class II, Div 1, 2, Group E, F & G enclosure  
Class III  
NEMA Type 4/7/9
- KT7 "Type E" Self-protected Combination Manual Motor Controller <sup>ⓐ</sup>
- Terminal Adaptor for Type E Applications  
(Cat.# KT7-25-TE1 or KT7-45-TE)

**Modifications (Factory Assembled)**

Description	Add Suffix to Cat. Number
<b>KT7 Auxiliaries &amp; Trip Contacts, Front Mount 300V max.</b> 1 NO Auxiliary 1 NC Auxiliary 1 NO + 1 NC Auxiliary 2 NO Auxiliaries 1 NO SC+OL + 1 NC Auxiliary 1 NO SC+OL + 1 NO Auxiliary	<b>-A10</b> <b>-A01</b> <b>-A11</b> <b>-A20</b> <b>-T10A01</b> <b>-T10A10</b>
<b>Side Mount 600V max.</b> 2 NC Auxiliaries 2 NO Auxiliaries 1 NO + 1 NC Auxiliary	<b>-AS02</b> <b>-AS20</b> <b>-AS11</b>
<b>Additional KT7 Trip Contacts, Side Mount 600V max.</b> 1 NO SC+OL+1 NO SC 1 NO SC+OL+1 NC SC 1 NC SC+OL+1 NO SC	<b>-R00</b> <b>-R01</b> <b>-R10</b>
<b>Accessories</b> Undervoltage Release Module Shunt Release Module	<b>-UA-*</b> <b>-AA-*</b>
<b>Enclosure Modifications</b> Breather/Drain	<b>-BD</b>

**-UA..-AA Coil Codes (\*)**

AC Coil Code	Voltage Range	
	50 Hz	60 Hz
24V	21V	24V
28V	24V	28V
120V	105V	120V
127V	110V	127V
230V	220...230V	~
240V	~	240...260V
277V	240V	277V
460V	380...400V	400...460V
480V	415V	480V

- ⓐ **Horsepower ratings shown in the table above are for reference. The final selection of the controller depends on the actual motor full load current and service factor.**
  - For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA7-25S-4A.
- ⓑ Magnetic trip is fixed at 13x the maximum value of the current adjustment range. See page F5 for KAIC ratings.
- ⓒ KTA7 may be applied to single phase loads if 3 poles of device are wired in series. See footnote ⓐ for device selection criteria.
- ⓓ Catalog numbers with specific voltages (i.e. @ 575V) shaded in gray are suitable for use as a manual motor starter only because they are not Type E rated. See page F5 for ratings.