

Enclosed Motor Controllers and Molded Case Circuit Breakers



KTA9 Type-E Self Protected Manual Motor Controllers
Page F1.57



Explosion-Proof Motor Controllers



KTA9_EX
Page F1.61



KTA9_EZ
Page F1.62

The following pages contain a selection of single enclosed KTA9 & KTC9 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 KTU9 molded case circuit breakers for the protection of non-motor loads. KTU9 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. KTU9 offers at least 65 KAIC withstand ratings which exceeds those offered by many 600 Volt Class Molded Case Circuit Breakers which



KTU9 Molded Case Circuit Breakers
Page F1.63

are larger and more expensive. Enclosed KTU9 can be combined with auxiliary contacts, shunt-trip or under-voltage trip units to meet your application requirements.

Enclosed Type E/F Combination Starters

KTA9 or KTC9 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:



CX7 Ecombo KWIKStarters
Page F1.66

- 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 Combination Controllers
Page F1.73

Enclosed KTA9 - IP65

Amp / Horsepower Rating				Non-metallic (IP65) Enclosure		Catalog Number ④	Dimension Code	
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Res. Current			
Three Phase								
200V	230V	460V	575V					
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-CG	AY	
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-CG	AY	
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.4A-CG	AY	
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-CG	AY	
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-CG	AY	
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-CG	AY	
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-CG	AY	
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-CG	AY	
1	1-1/2	3	5 ④	4.0...6.3	88	KTA9-32S-6.3A-CG	AY	
2	2	5	7-1/2 ④	6.3...10	140	KTA9-32S-10A-CG	AY	
3	5	10	10 ④	10...16	224	KTA9-32S-16A-CG	AY	
5 ④	5 ④	10 ④	15 ④	14.5...20	280	KTA9-32S-20A-CG	AY	
5 ④	7-1/2 ④	15 ④	20 ④	18...25	330	KTA9-32S-25A-CG	AY	
7-1/2 ④	10 ④	20 ④	25 ④	24...29	406	KTA9-32S-29A-CG	AY	
7-1/2 ④	10 ④	20 ④	30 ④	27...32	448	KTA9-32S-32A-CG	AY	



Includes:

- Non-metallic (IP65) enclosure with integrated IP65 operator – watertight, dusttight
- KTA9-32S (Standard Interrupting Capacity) “Type E” Self-protected Combination Manual Controller ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT9-40-TE)
- Gray and black IP65 handle ④⑤

Enclosure Only

Description	Catalog Number
Gray/Black handle	KT9-ENN
Red/Yellow handle	KT9-ENRY

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max. 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 -A -C -D -R -S
Side Mount 600V max. 2 NC Auxiliaries 2 NO Auxiliaries 1 NO + 1 NC Auxiliary	-AS02 -AS20 -AS11
Additional KT9 Trip Contacts, Side Mount 600V max. 1 NO SC+OL+1 NO SC 1 NO SC+OL+1 NC SC 1 NC SC+OL+1 NO SC	-R00 -R01 -R10
Accessories Undervoltage Release Module Shunt Release Module	-UA-* -AA-*

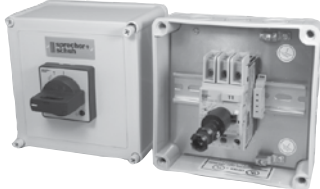
- ① Horsepower ratings shown in the table above are for reference. *The final selection of the controller depends on the actual motor full load current and service factor.*
 - For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA9-32S-4.0A.
- ② Magnetic trip is fixed at 14x the maximum value of the current adjustment range. Refer to page F5 for applied KAIC ratings.
- ③ KTA9 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 KTA9-32S-0.16A-CG to KTA9-32S-0.16A-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

F Enclosed Motor Circuit Controllers

Enclosed KTA9 - Type 4 / 4X / 12

Amp / Horsepower Rating				Non-metallic, Type 4 / 4X / 12 Enclosure			
				O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ③	Dim Code
Three Phase							
200V	230V	460V	575V				
KTA9-32S Standard Interrupting Capacity							
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-VG	Q5
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-VG	Q5
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.40A-VG	Q5
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-VG	Q5
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-VG	Q5
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-VG	Q5
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-VG	Q5
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-VG	Q5
1	1-1/2	3	5 ④	4.0...6.3	88	KTA9-32S-6.3A-VG ④	Q5
2	2	5	7-1/2 ④	6.3...10	140	KTA9-32S-10A-VG ④	Q5
3	5	10	10 ④	10...16	224	KTA9-32S-16A-VG ④	Q5
5 ④	5 ④	10 ④	15 ④	14.5...20	280	KTA9-32S-20A-VG ④	Q5
5 ④	7-1/2 ④	15 ④	20 ④	18...25	330	KTA9-32S-25A-VG ④	Q5
7-1/2 ④	10 ④	20 ④	25 ④	24...29	406	KTA9-32S-29A-VG ④	Q5
7-1/2 ④	10 ④	20 ④	30 ④	27...32	448	KTA9-32S-32A-VG ④	Q5
KTA9-40H High Interrupting Capacity							
~	~	~	~	0.40...0.63	8.8	KTA9-40H-0.63A-VG	Q6
~	~	1/2	1/2	0.63...1.0	14	KTA9-40H-1.0A-VG	Q6
~	~	3/4	~	1.0...1.6	22	KTA9-40H-1.6A-VG	Q6
1/2	1/2	1	1-1/2	1.6...2.5	33	KTA9-40H-2.5A-VG	Q6
3/4	3/4	2	3	2.5...4.0	52	KTA9-40H-4.0A-VG	Q6
1	1-1/2	3	5	4.0...6.3	82	KTA9-40H-6.3A-VG	Q6
2	2	5	7-1/2	6.3...10	130	KTA9-40H-10A-VG	Q6
3	5	10	10	10...16	208	KTA9-40H-16A-VG	Q6
5	5	10	15 ④	14.5...20	260	KTA9-40H-20A-VG ④	Q6
5	7-1/2	15	20 ④	18...25	325	KTA9-40H-25A-VG ④	Q6
7-1/2	10	20	25 ④	24...29	406	KTA9-40H-29A-VG ④	Q6
7-1/2	10	20	30 ④	27...32	448	KTA9-40H-32A-VG ④	Q6
10	10	25	30 ④	30...36	432	KTA9-40H-36A-VG ④	Q6
10	10	30	30 ④	34...40	480	KTA9-40H-40A-VG ④	Q6
KTA7-45H High Interrupting Capacity							
2	3	5	7-1/2	6.3...10	130	KTA7-45H-10A-VG	Q7
3	5	10	10	10...16	208	KTA7-45H-16A-VG	Q7
5	5	10	15	14.5...20	260	KTA7-45H-20A-VG	Q7
7-1/2	7-1/2	15	20	18...25	325	KTA7-45H-25A-VG	Q7
7-1/2	10	20	30	23...32	416	KTA7-45H-32A-VG	Q7
10	15	30	40 ④	32...45	585	KTA7-45H-45A-VG	Q7

Includes:

- Type 4 / 4X / 12 enclosure – watertight, dusttight, corrosion resistant
- KTA9 “Type E” Self-protected Combination Manual Controller (Standard Interrupting Capacity) ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT9-40-TE or KT7-45-TE)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT9-HTN) ④

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max.	
1 NO Auxiliary	-B
1 NC Auxiliary	-A
1 NO + 1 NC Auxiliary	-C
2 NO Auxiliaries	-D
1 NO SC+OL + 1 NC	-R
1 NO SC+OL + 1 NO	-S
Side Mount 600V max.	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
Additional KT9 Trip Contacts, Side Mount 600V max.	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
Accessories	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*

-UA..-AA Coil Codes(*)

AC Coil Code	Voltage Range			
	KT9		KT7	
	50 Hz	60 Hz	50 Hz	60 Hz
24V	24V	28V	~	24V
120V	105V	120V	~	120V
230V	220...230V	~	220-230V	~
240V	~	240...260V	~	240...260V
277V	~	~	~	277V
460V	380...400V	~	380...400V	~
480V	415V	480V	415V	480V
500V	~	~	500V	575V

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 KTA9-32S-4.0A.

② KTA9 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 KTA9-32S-0.16-VG to KTA9-32S-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 KTA9 - Type 12

Amp / Horsepower Rating				Painted Steel, Type 12 Enclosure			
Max. Horsepower ①②③				O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ④	Dim Code
Three Phase							
200V	230V	460V	575V				
KTA9-32S Standard Interrupting Capacity							
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-DG	L
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-DG	L
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.40A-DG	L
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-DG	L
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-DG	L
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-DG	L
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-DG	L
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-DG	L
1	1-1/2	3	5 ④	4.0...6.3	88	KTA9-32S-6.3A-DG ④	L
2	2	5	7-1/2 ④	6.3...10	140	KTA9-32S-10A-DG ④	L
3	5	10	10 ④	10...16	224	KTA9-32S-16A-DG ④	L
5 ④	5 ④	10 ④	15 ④	14.5...20	280	KTA9-32S-20A-DG ④	L
5 ④	7-1/2 ④	15 ④	20 ④	18...25	330	KTA9-32S-25A-DG ④	L
7-1/2 ④	10 ④	20 ④	25 ④	24...29	406	KTA9-32S-29A-DG ④	L
7-1/2 ④	10 ④	20 ④	30 ④	27...32	448	KTA9-32S-32A-DG ④	L
KTA9-40H High Interrupting Capacity							
~	~	~	~	0.40...0.63	8.8	KTA9-40H-0.63A-DG	L
~	~	1/2	1/2	0.63...1.0	14	KTA9-40H-1.0A-DG	L
~	~	3/4	~	1.0...1.6	22	KTA9-40H-1.6A-DG	L
1/2	1/2	1	1-1/2	1.6...2.5	33	KTA9-40H-2.5A-DG	L
3/4	3/4	2	3	2.5...4.0	52	KTA9-40H-4.0A-DG	L
1	1-1/2	3	5	4.0...6.3	82	KTA9-40H-6.3A-DG	L
2	2	5	7-1/2	6.3...10	130	KTA9-40H-10A-DG	L
3	5	10	10	10...16	208	KTA9-40H-16A-DG	L
5	5	10	15 ④	14.5...20	260	KTA9-40H-20A-DG ④	L
5	7-1/2	15	20 ④	18...25	325	KTA9-40H-25A-DG ④	L
7-1/2	10	20	25 ④	24...29	406	KTA9-40H-29A-DG ④	L
7-1/2	10	20	30 ④	27...32	448	KTA9-40H-32A-DG ④	L
10	10	25	30 ④	30...36	432	KTA9-40H-36A-DG ④	L
10	10	30	30 ④	34...40	480	KTA9-40H-40A-DG ④	L



Includes:

- Type 12 enclosure – dusttight
- KTA9 “Type E” Self-protected Combination Manual Controller ⑤
- Terminal Adaptor for Type E Applications (Cat.# KT9-40-TE)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT9-HTN) ④

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max.	
1 NO Auxiliary	-B
1 NC Auxiliary	-A
1 NO + 1 NC Auxiliary	-C
2 NO Auxiliaries	-D
1 NO SC+OL + 1 NC	-R
1 NO SC+OL + 1 NO	-S
Side Mount 600V max.	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
Additional KT9 Trip Contacts, Side Mount 600V max.	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
Accessories	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*

-UA..-AA Coil Codes (*)

AC Coil Code	Voltage Range			
	KT9		KT7	
	50 Hz	60 Hz	50 Hz	60 Hz
24V	24V	28V	21V	24V
120V	~	120V	~	120V
127V	110V	127V	~	120V
230V	220...230V	~	220-230V	~
240V	~	240...260V	~	240-260V
277V	~	~	~	277V
460V	380...400V	~	380-400V	~
480V	415V	480V	415V	480V
500V	~	~	500V	575V

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.

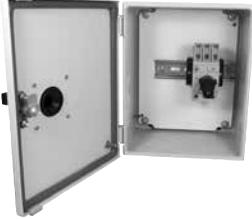
- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA9-32S-4.0A.

② KTA9 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 KTA9-32S-0.16-DG to KTA9-32S-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 KTA9 - Type 4 / 12

Amp / Horsepower Rating					Painted Steel, Type 4 / 12 Enclosure			
					O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ③	Dim Code
Three Phase								
200V	230V	460V	575V					
KTA9-32S Standard Interrupting Capacity								
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-WG	W6	
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-WG	W6	
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.40A-WG	W6	
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-WG	W6	
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-WG	W6	
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-WG	W6	
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-WG	W6	
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-WG	W6	
1	1-1/2	3	5 ④	4.0...6.3	88	KTA9-32S-6.3A-WG ④	W6	
2	2	5	7-1/2 ④	6.3...10	140	KTA9-32S-10A-WG ④	W6	
3	5	10	10 ④	10...16	224	KTA9-32S-16A-WG ④	W6	
5 ④	5 ④	10 ④	15 ④	14.5...20	280	KTA9-32S-20A-WG ④	W6	
5 ④	7-1/2 ④	15 ④	20 ④	18...25	330	KTA9-32S-25A-WG ④	W6	
7-1/2 ④	10 ④	20 ④	25 ④	24...29	406	KTA9-32S-29A-WG ④	W6	
7-1/2 ④	10 ④	20 ④	30 ④	27...32	448	KTA9-32S-32A-WG ④	W6	
KTA9-40H High Interrupting Capacity								
~	~	~	~	0.40...0.63	8.8	KTA9-40H-0.63A-VG	W6	
~	~	1/2	1/2	0.63...1.0	14	KTA9-40H-1.0A-VG	W6	
~	~	3/4	~	1.0...1.6	22	KTA9-40H-1.6A-VG	W6	
1/2	1/2	1	1-1/2	1.6...2.5	33	KTA9-40H-2.5A-WG	W6	
3/4	3/4	2	3	2.5...4.0	52	KTA9-40H-4.0A-WG	W6	
1	1-1/2	3	5	4.0...6.3	82	KTA9-40H-6.3A-WG	W6	
2	2	5	7-1/2	6.3...10	130	KTA9-40H-10A-WG	W6	
3	5	10	10	10...16	208	KTA9-40H-16A-WG	W6	
5	5	10	15 ④	14.5...20	260	KTA9-40H-20A-WG ④	W6	
5	7-1/2	15	20 ④	18...25	325	KTA9-40H-25A-WG ④	W6	
7-1/2	10	20	25 ④	24...29	406	KTA9-40H-29A-WG ④	W6	
7-1/2	10	20	30 ④	27...32	448	KTA9-40H-32A-WG ④	W6	
10	10	25	30 ④	30...36	432	KTA9-40H-36A-WG ④	W6	
10	10	30	30 ④	34...40	480	KTA9-40H-40A-WG ④	W6	
KTA7-45H High Interrupting Capacity								
2	3	5	7-1/2	6.3...10	130	KTA7-45H-10A-WG	R/F	
3	5	10	10	10...16	208	KTA7-45H-16A-WG	R/F	
5	5	10	15	14.5...20	260	KTA7-45H-20A-WG	R/F	
7-1/2	7-1/2	15	20	18...25	325	KTA7-45H-25A-WG	R/F	
7-1/2	10	20	30	23...32	416	KTA7-45H-32A-WG	R/F	
10	15	30	40 ④	32...45	585	KTA7-45H-45A-WG ④	R/F	

Includes:

- Type 4 / 12 enclosure – watertight, dusttight
- KTA9 “Type E” Self-protected Combination Manual Controller ④
- Terminal Adaptor for Type E Applications (Cat.# KT9-40-TE or KT7-45-TE)
- Gray and black Type 4/4X/12; IP66 handle (Cat.# KT9-HTN) ⑤

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max.	
1 NO Auxiliary	-B
1 NC Auxiliary	-A
1 NO + 1 NC Auxiliary	-C
2 NO Auxiliaries	-D
1 NO SC+OL + 1 NC	-R
1 NO SC+OL + 1 NO	-S
Side Mount 600V max.	
2 NC Auxiliaries	-AS02
2 NO Auxiliaries	-AS20
1 NO + 1 NC Auxiliary	-AS11
Additional KT9 Trip Contacts, Side Mount 600V max.	
1 NO SC+OL+1 NO SC	-R00
1 NO SC+OL+1 NC SC	-R01
1 NC SC+OL+1 NO SC	-R10
Accessories	
Undervoltage Release Module	-UA-*
Shunt Release Module	-AA-*

-UA..-AA Coil Codes (*)

AC Coil Code	Voltage Range			
	KT9		KT7	
	50 Hz	60 Hz	50 Hz	60 Hz
24V	24V	28V	~	24V
120V	105V	120V	~	120V
230V	220...230V	~	220-230V	~
240V	~	240...260V	~	240...260V
277V	~	~	~	277V
460V	380...400V	~	380...400V	~
480V	415V	480V	415V	480V
500V	~	~	500V	575V

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 KTA9-32S-4.0A.

- ② KTA9 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.
- ③ A red and yellow handle may be selected instead of the standard gray and black handle. Change “WG” suffix to “WJ”. Ex: Change KTA9-32S-0.16-WG to KTA9-32S-0.16-WJ.
- 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.

KTA9 Explosion Proof Motor Controllers - NEMA Type 7/9

Amp / Horsepower Rating					O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number	Dim Code
Max. Horsepower ①②								
Three Phase								
200V	230V	460V	575V					
KTA9-32S Standard Interrupting Capacity								
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-EX	EX	
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-EX	EX	
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.4A-EX	EX	
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-EX	EX	
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-EX	EX	
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-EX	EX	
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-EX	EX	
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-EX	EX	
1	1-1/2	3	5 ③	4.0...6.3	88	KTA9-32S-6.3A-EX ③	EX	
2	2	5	7-1/2 ③	6.3...10	140	KTA9-32S-10A-EX ③	EX	
3	5	10	10 ③	10...16	224	KTA9-32S-16A-EX ③	EX	
5 ③	5 ③	10 ③	15 ③	14.5...20	280	KTA9-32S-20A-EX ③	EX	
5 ③	7-1/2 ③	15 ③	20 ③	18...25	330	KTA9-32S-25A-EX ③	EX	
7-1/2 ③	10 ③	20 ③	25 ③	24...29	406	KTA9-32S-29A-EX ③	EX	
7-1/2 ③	10 ③	20 ③	30 ③	27...32	448	KTA9-32S-32A-EX ③	EX	



Includes:

- Class I, Div 1, 2, Group C, D
Class II, Div 1, 2, Group E, F & G enclosure
Class III
NEMA Type 7/9
- KTA9 "Type E" Self-protected Combination Manual Motor Controller ④
- Terminal Adaptor for Type E Applications (Cat.# KT9-40-TE)

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max. 1 NO Auxiliary 1 NC Auxiliary 1 NO + 1 NC Auxiliary 2 NO Auxiliaries	-B -A -C -D
1 NO SC+OL + 1 NC 1 NO SC+OL + 1 NO	-R -S
Side Mount 600V max. 2 NC Auxiliaries 2 NO Auxiliaries 1 NO + 1 NC Auxiliary	-AS02 -AS20 -AS11
Additional KT9 Trip Contacts, Side Mount 600V max. 1 NO SC+OL+1 NO SC 1 NO SC+OL+1 NC SC 1 NC SC+OL+1 NO SC	-R00 -R01 -R10
Accessories Undervoltage Release Module Shunt Release Module	-UA-* -AA-*
Enclosure Modifications 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.

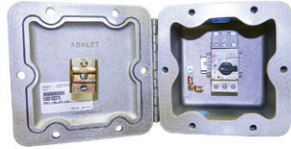
- For motor with service factor less than 1.15. Use motor nameplate full load current times 0.9 and choose the motor starter with the appropriate current range. Example: Motor FLC = 4.2A; S.F. = 1.0. 4.2A x 0.9 = 3.78A. Select catalog number KTA9-32S-0.40A.

- ② KTA9 may be applied to single phase loads if 3 poles of device are wired in series. See footnote 1 for device selection criteria.
- ③ 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.
- ④ -UA* and -AA* options not possible in the -EX Enclosure.

F Enclosed Motor Circuit Controllers

KTA9 Explosion Proof Motor Controllers – NEMA Type 4/7/9 with Gasket

Amp / Horsepower Rating				O/L Relay Ampere Range	Magnetic Res. Current	Catalog Number ③	Dim Code
Max. Horsepower ①②							
Three Phase							
200V	230V	460V	575V				
KTA9-32S Standard Interrupting Capacity							
~	~	~	~	0.10...0.16	2.2	KTA9-32S-0.16A-EY	EY
~	~	~	~	0.16...0.25	3.5	KTA9-32S-0.25A-EY	EY
~	~	~	~	0.25...0.40	5.6	KTA9-32S-0.40A-EY	EY
~	~	~	~	0.40...0.63	8.8	KTA9-32S-0.63A-EY	EY
~	~	1/2	1/2	0.63...1.0	14	KTA9-32S-1.0A-EY	EY
~	~	3/4	~	1.0...1.6	22	KTA9-32S-1.6A-EY	EY
1/2	1/2	1	1-1/2	1.6...2.5	35	KTA9-32S-2.5A-EY	EY
3/4	3/4	2	3	2.5...4.0	52	KTA9-32S-4.0A-EY	EY
1	1-1/2	3	5	4.0...6.3	88	KTA9-32S-6.3A-EY	EY
2	2	5	7-1/2	6.3...10	140	KTA9-32S-10A-EY	EY
3	5	10	10	10...16	224	KTA9-32S-16A-EY	EY
5	5	10	15	14.5...20	280	KTA9-32S-20A-EY	EY
5	7-1/2	15	20	18...25	330	KTA9-32S-25A-EY	EY
7-1/2	10	20	25	24...29	406	KTA9-32S-29A-EY	EY
7-1/2	10	20	30	27...32	448	KTA9-32S-32A-EY	EY
KTA9-40H High Interrupting Capacity							
~	~	~	~	0.40...0.63	8.8	KTA9-40H-0.63A-EY	EY
~	~	1/2	1/2	0.63...1.0	14	KTA9-40H-1.0A-EY	EY
~	~	3/4	~	1.0...1.6	22	KTA9-40H-1.6A-EY	EY
1/2	1/2	1	1-1/2	1.6...2.5	33	KTA9-40H-2.5A-EY	EY
3/4	3/4	2	3	2.5...4.0	52	KTA9-40H-4.0A-EY	EY
1	1-1/2	3	5	4.0...6.3	82	KTA9-40H-6.3A-EY	EY
2	2	5	7-1/2	6.3...10	130	KTA9-40H-10A-EY	EY
3	5	10	10	10...16	208	KTA9-40H-16A-EY	EY
5	5	10	15	14.5...20	260	KTA9-40H-20A-EY	EY
5	7-1/2	15	20	18...25	325	KTA9-40H-25A-EY	EY
7-1/2	10	20	25	24...29	406	KTA9-40H-29A-EY	EY
7-1/2	10	20	30	27...32	448	KTA9-40H-32A-EY	EY
10	10	25	30	30...36	432	KTA9-40H-36A-EY	EY
10	10	30	30	34...40	480	KTA9-40H-40A-EY	EY
KTA7-45H High Interrupting Capacity							
2	3	5	7-1/2	6.3...10	130	KTA7-45H-10A-EZ	EZ
3	5	10	10	10...16	208	KTA7-45H-16A-EZ	EZ
5	5	10	15	14.5...20	260	KTA7-45H-20A-EZ	EZ
7-1/2	7-1/2	15	20	18...25	325	KTA7-45H-25A-EZ	EZ
7-1/2	10	20	30	23...32	416	KTA7-45H-32A-EZ	EZ
10	15	30	40	32...45	585	KTA7-45H-45A-EZ	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
- KTA9 "Type E" Self-protected Combination Manual Motor Controller ③
- Terminal Adaptor for Type E Applications
(Cat.# KT9-40-TE or KT7-45-TE)

Modifications (Factory Assembled)

Description	Add Suffix to Cat. Number
KT9 Auxiliaries & Trip Contacts, Front Mount 250V max. 1 NO Auxiliary 1 NC Auxiliary 1 NO + 1 NC Auxiliary 2 NO Auxiliaries 1 NO SC+OL + 1 NC 1 NO SC+OL + 1 NO	-B -A -C -D -R -S
Side Mount 600V max. 2 NC Auxiliaries 2 NO Auxiliaries 1 NO + 1 NC Auxiliary	-AS02 -AS20 -AS11
Additional KT9 Trip Contacts, Side Mount 600V max. 1 NO SC+OL+1 NO SC 1 NO SC+OL+1 NC SC 1 NC SC+OL+1 NO SC	-R00 -R01 -R10
Accessories Undervoltage Release Module Shunt Release Module	-UA-* -AA-*
Enclosure Modifications Breather/Drain	-BD

-UA..-AA Coil Codes (*)

AC Coil Code	Voltage Range			
	KT9		KT7	
	50 Hz	60 Hz	50 Hz	60 Hz
24V	24V	28V	21V	24V
120V	~	120V	~	120V
230V	220...230V	~	220-230V	~
240V	~	240...260V	~	240...260V
277V	~	~	~	250V
460V	380...400V	~	380...400V	~
480V	415V	480V	415V	480V
575V	~	~	500V	575V

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 KTA9-32S-4.0A.

② KTA9 may be applied to single phase loads if 3 poles of device are wired in series. See footnote ① for device selection criteria.

③ 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.