

MOTOR DISCONNECT SWITCHES

FEATURES AND BENEFITS:

- One of the smallest 60A switches in the industry with compact design
- Advanced switch technology (use of silver contacts ensures safe and durable operation)
- Across the line, motor starting - up to 75hp/600V
- General Use Rating - 25A to 150A/600V
- Available as rotary switches for extended or direct handle
- Toggle switches
- Non-fused switch
- Interrupting capacity 10kA with back-up fuse
- DIN Rail and panel mount available
- Comprehensive range of accessories includes Door Mounting Kits & Fuse Holder
- Snap on auxiliary contacts
- Enclosed switches with NEMA Type 4x rating

UL508 Listed Manual Motor Controllers

with Disconnecting Means



AC Motor Across-The-Line
AC General Use



EXTENDED / DIRECT HANDLE MOTOR DISCONNECT SWITCH

KU/VKA switches	4-5
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TOGGLE HANDLE MOTOR DISCONNECT SWITCH

KUE/EVA Switches and Accessories	10-11
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ENCLOSED MOTOR DISCONNECT SWITCHES & FUSED ENCLOSED MOTOR DISCONNECT SWITCH (30A)

KEM Switches and Accessories	12-13
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APPLICATION EXAMPLES

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Extended/Direct Handle Motor Disconnect Switch



The KU/VKA...N series can be used with extended and direct handles (see page 8-9 for details).



Catalog Number

	KU325N	KU340N	KU363N
No. of Poles	3 (4 pole - KU425N)	3 (4 pole - KU440N)	3 (4 pole - KU463N)
General Purpose Current	25A	40A	60A
Maximum Voltage	600V AC	600V AC	600V AC
Motor FLA @ 480V AC	17.5A	28A	34A
Motor FLA @ 600V AC	11A	18A	27A

Horsepower Rating /HP

	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V AC	1	2	2	3	3	5
200V AC	2	5	3	7.5	5	10
208V AC	2	5	3	7.5	5	10
220-240V AC	3	7.5	5	10	5	10
265V AC	3	7.5	5	10	5	10
277V AC	3	7.5	5	10	7.5	10
380-415V AC	5	10	7.5	15	10	20
440-480V AC	7.5	15	10	20	15	25
550-600V AC	5	10	7.5	15	15	25

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:

	10kA	10kA	10kA
K5	50A	50A	60A
RK5	50A	50A	60A (80A@480V AC)
RK1	80A	80A	100A
J	80A	80A	100A

Terminal Size

Acceptability

(Cu Conductors only, 75°C)

Terminal Torque

14-8AWG

14-8AWG

12-4AWG

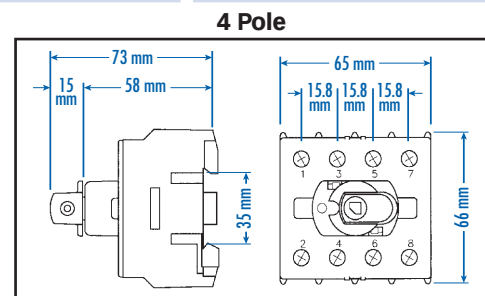
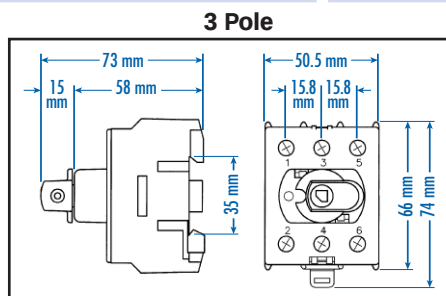
16 lb. in.

16 lb. in.

16 lb. in.

Dimensions

(to convert to inches multiply by 0.03937)



Weight

0.172Kg (0.379lb.) (3 pole)
0.215Kg (0.474lb.) (4 pole)

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Suitable Accessories

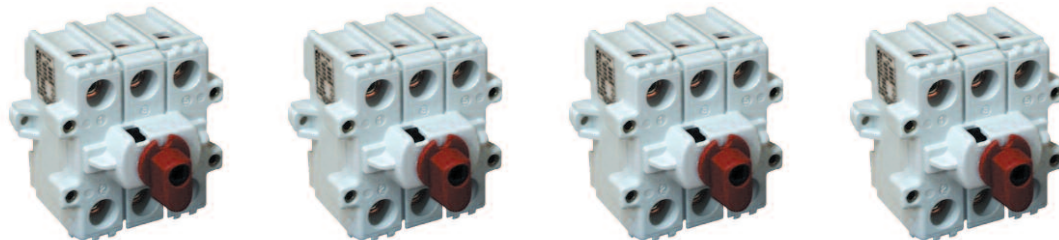
Extended Handle Version/

Door Interlock Mechanism

Shaft	L1(2,3)00AD11-ST	L1(2,3)00AD11-ST	L1(2,3)00AD11-ST
Handles	LK10 (Y/R) UL, LK11 (Y/R) U	LK10 (Y/R) UL, LK11 (Y/R) U	LK10 (Y/R) UL, LK11 (Y/R) U
Auxiliary Switch	KU1V, KU2.V	KU1V, KU2.V	KU1V, KU2.V
Fuse Holder	—	KV 10x38, KV 10x38 CC	—

Direct Handle Version

Handle for 3 Pole	K/KU3P (Y/R)	K/KU3P (Y/R)	K/KU3P (Y/R)
Handle for 4 Pole	K/KU4P (Y/R)	K/KU4P (Y/R)	K/KU4P (Y/R)
Door Mounting Kits	OKA0.V (Y/R), OKA/KU LK10 (Y/R)	OKA0.V (Y/R), OKA/KU LK10 (Y/R)	OKA0.V (Y/R), OKA/KU LK10 (Y/R)



Catalog Number	VKA380N	VKA3100N	VKA3125N	VKA3160N
No. of Poles	3 (4 pole - VKA480N)	3 (4 pole - VKA4100N)	3 (4 pole - VKA4125N)	3 (4 pole - VKA4160N)
General Purpose Current	80A	100A	125A	150A
Maximum Voltage	600V AC	600V AC	600V AC	600V AC
Motor FLA @ 480V AC	—	—	—	—
Motor FLA @ 600V AC	47A	54A	68A	83A

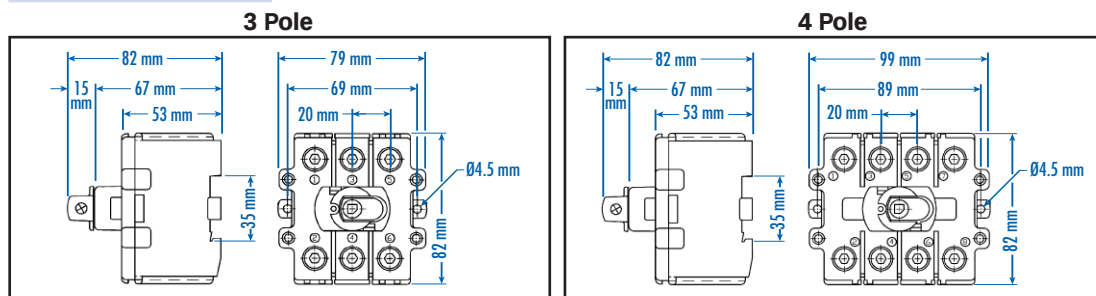
Horsepower Rating /HP	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V AC	3	7.5	3	7.5	5	10	7.5	10
200V AC	7.5	10	7.5	15	10	20	10	25
208V AC	7.5	15	7.5	15	10	20	10	25
220-240V AC	7.5	15	10	20	15	25	15	30
265V AC	10	20	10	20	15	25	20	30
277V AC	10	20	10	20	15	30	20	30
380-415V AC	15	25	15	30	20	40	25	50
440-480V AC	20	30	20	40	25	50	30	60
550-600V AC	25	40	30	50	30	60	40	75

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:	10kA	10kA	10kA	10kA
K5	150A	150A	150A	150A
RK5	150A	150A	150A	150A
RK1	—	—	—	—
J	200A	200A	200A	200A

Terminal Size Acceptability (Cu Conductors only, 75°C)	4-1/0AWG	4-1/0AWG	4-1/0AWG	4-1/0AWG
Terminal Torque	50 lb. in.	50 lb. in.	50 lb. in.	50 lb. in.

Dimensions

(to convert to inches
multiply by 0.03937)



Weight	0.480Kg (1.058lb.) (3 pole) 0.620Kg (1.367lb.) (4 pole)	0.480Kg (1.058lb.) (3 pole) 0.620Kg (1.367lb.) (4 pole)	0.480Kg (1.058lb.) (3 pole) 0.620Kg (1.367lb.) (4 pole)	0.480Kg (1.058lb.) (3 pole) 0.620Kg (1.367lb.) (4 pole)
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Suitable Accessories

Extended Handle Version/ Door Interlock Mechanism

Shaft	L1(2.3)00AD11-ST	L1(2.3)00AD11-ST	L1(2.3)00AD11-ST	L1(2.3)00AD11-ST
Handles	LK10 (Y/R) UL, LK11 (Y/R) U	LK10 (Y/R) UL, LK11 (Y/R) U	LK10 (Y/R) UL, LK11 (Y/R) U	LK10 (Y/R) UL, LK11 (Y/R) U
Auxiliary Switch	VKA1V, VKA2.V	VKA1V, VKA2.V	VKA1V, VKA2.V	VKA1V, VKA2.V
Fuse Holder	—	—	—	—

Direct Handle Version

Handle for 3 & 4 Pole	KVKA3-4P (Y/R)	KVKA3-4P (Y/R)	KVKA3-4P (Y/R)	KVKA3-4P (Y/R)
Door Mounting Kit	OKAV LK11 (Y/R)	OKAV LK11 (Y/R)	OKAV LK11 (Y/R)	OKAV LK11 (Y/R)

Extended Handle Accessories

DOOR INTERLOCK HANDLES

LK10 (Y/R) UL:

- Single hole mounting (22.5mm)
- Defeatable (built-in mechanism)



LK10 UL



LK11 U

LK11 (Y/R) U:

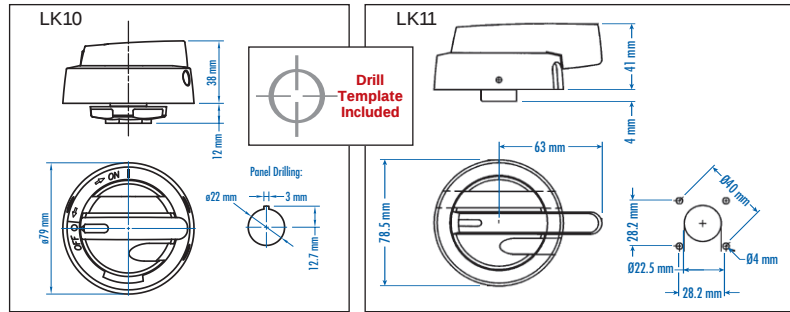
- Retention mechanism (only rotates 90° from off to on, keeps handle in off position while cabinet door is open)
- Defeatable (looses NEMA rating)



LK10 Y/R UL



LK11 Y/R U



Cat. No.

LK10 UL

LK10 Y/R UL

LK11 U

LK11 Y/R U

Environmental Rating

NEMA Type 4X, IP66

NEMA Type 4X, IP66

NEMA Type 4X, IP67

NEMA Type 4X, IP67

Color

Black

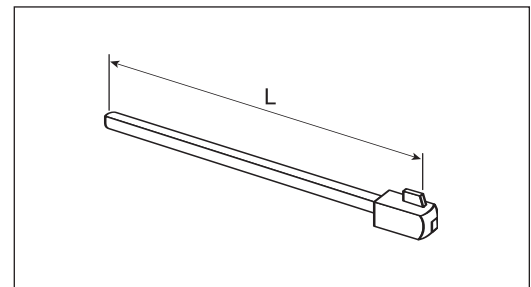
Yellow/Red

Black

Yellow/Red

DOOR INTERLOCK SHAFT

The steel shaft ensures reliable operation even in the toughest conditions.



Cat. No.

L100AD11-ST

L200AD11-ST

L300AD11-ST

Length (L)

100mm

200mm

300mm

Material

Steel

Steel

Steel

AUXILIARY SWITCHES

The auxiliary switches are the snap-on type and can be retrofitted.



Cat. No.

KU1V

KU2.V

VKA1V

VKA2.V

Electrical Rating

10A/1/2HP/125-250V AC

10A/1/2HP/125-250V AC

10A/1/2HP/125-250V AC

10A/1/2HP/125-250V AC

No. of contacts

1n.o./1n.c.

2n.o./2n.c.

1n.o./1n.c.

2n.o./2n.c.

For Use With

KU models

KU models

VKA models

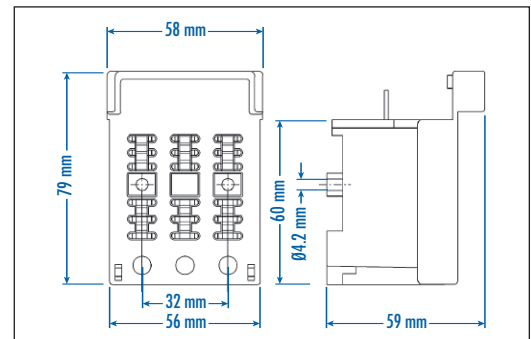
VKA models

FUSE HOLDER

This fuseholder can be retrofitted with the KU340N. Therefore design changes can be incorporated with ease to allow a fusible disconnect.



Shown with extended handle switch.



Cat. No.

KV 10x38

KV 10x38 CC

Electrical Rating

30A/600V AC

30A/600V AC

Fuse Type

10x38, Midget

Class CC

For Use With

KU340N

KU340N

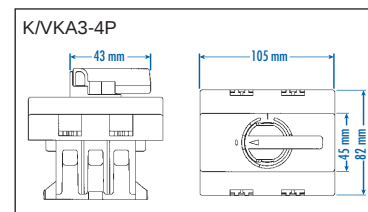
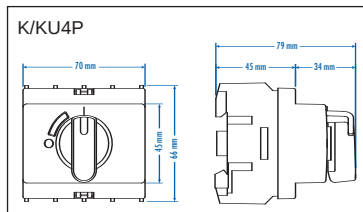
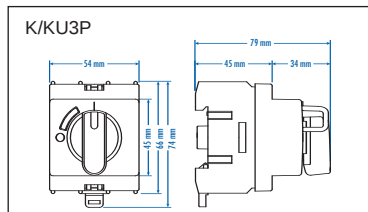
Dimensions (to convert to inches multiply by 0.03937)

DIRECT HANDLES

Improved design with metal shaft. Use for all your "inside the panel" applications.

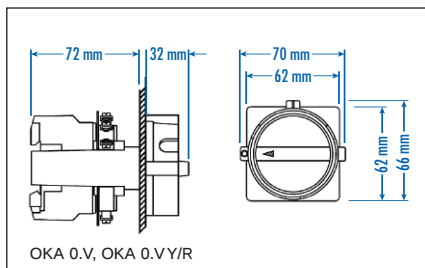


Cat. No.	K/KU3P	K/KU3P Y/R	K/KU4P	K/KU4P Y/R	K/VKA3-4P	K/VKA3-4P Y/R
Color	Black	Yellow/Red	Black	Yellow/Red	Black	Yellow/Red
For use with	KU models (3P)	KU models (3P)	KU models (4P)	KU models (4P)	VKA models (3/4P)	VKA models (3/4P)



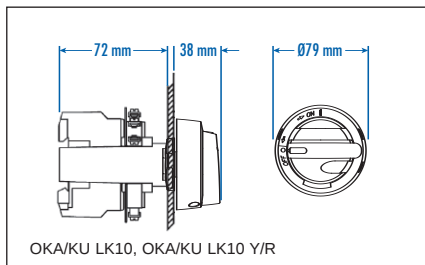
DOOR MOUNTING KITS

Designed for fast and easy assembly.



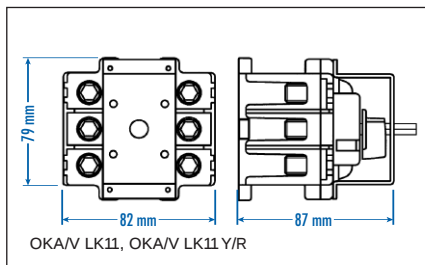
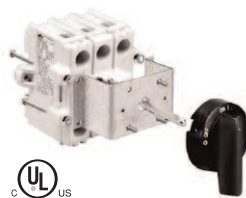
Shown with switch and display plate. (sold separately)

Cat. No.	OKA 0.V	OKA 0.V Y/R
Environmental Rating	IP65	IP65
Color	Black	Yellow/Red
For use with	KU models (3P)	KU models (3P)



Shown with switch and display plate. (sold separately)

Cat. No.	OKA/KU LK10	OKA/KU LK10 Y/R
Environmental Rating	NEMA Type 4X, IP66	NEMA Type 4X, IP66
Color	Black	Yellow/Red
For use with	KU models (3P)	KU models (3P)

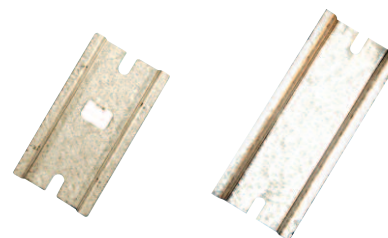


Shown with switch. (sold separately)

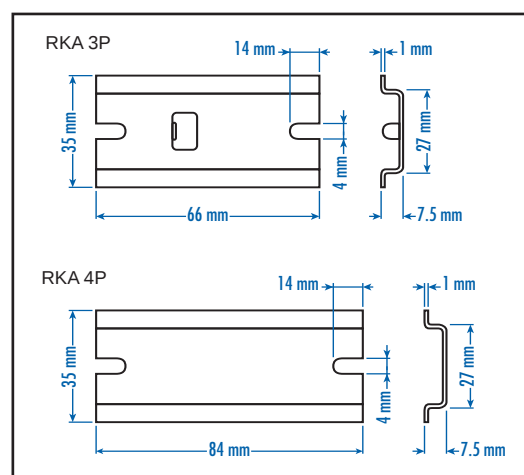
Cat. No.	OKA/V LK11	OKA/V LK11 Y/R
Environmental Rating	NEMA Type 4X, IP67	NEMA Type 4X, IP67
Color	Black	Yellow/Red
For use with	VKA models (3P)	VKA models (3P)

MOUNTING ALTERNATIVES - ALUMINUM DIN RAIL

Panel mount option for small Disconnect Switches.



Cat. No.	RKA 3P	RKA 4P
For Use With	KU325/40/63N	KU425/40/63N



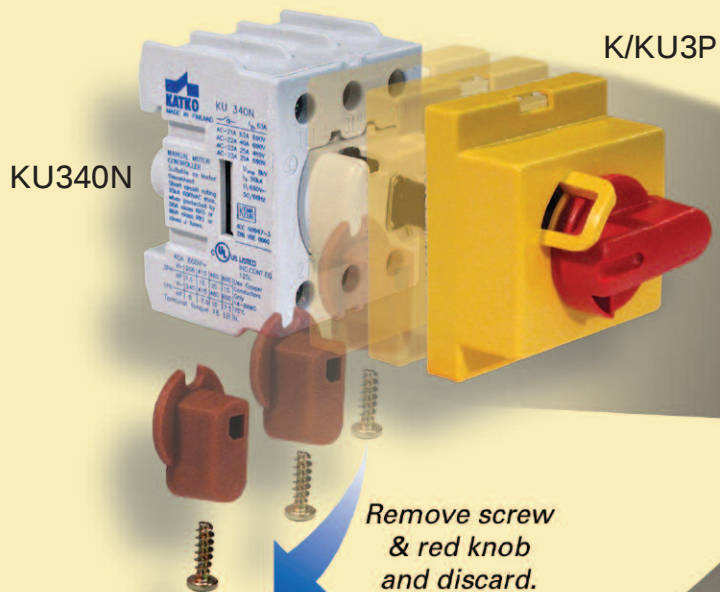
NOTE:

In the rare case that your mounting hardware (screws) for DIN Rail interfere with the enforcement studs in the back of the Motor Disconnect Switch please use smaller ($\leq M3$ or equivalent) flathead screws or change your DIN Rail to the 15mm high version.

Dimensions (to convert to inches multiply by 0.03937)

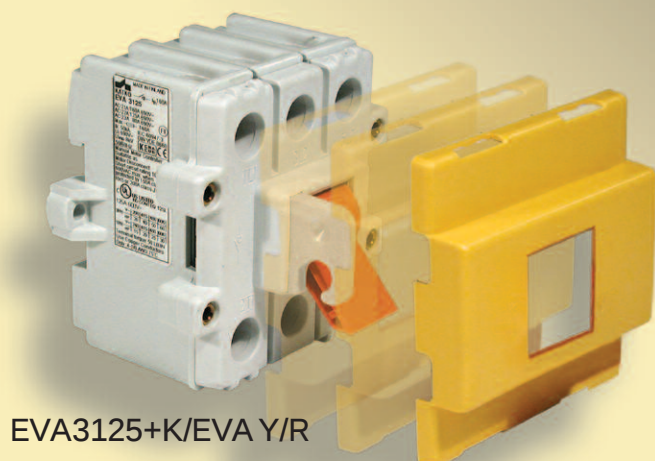
Direct Handle Motor Disconnect Switch

*Used when a switch is required
within a panel.*



Toggle Handle Motor Disconnect Switch

*Used when a switch is required
within a panel.*

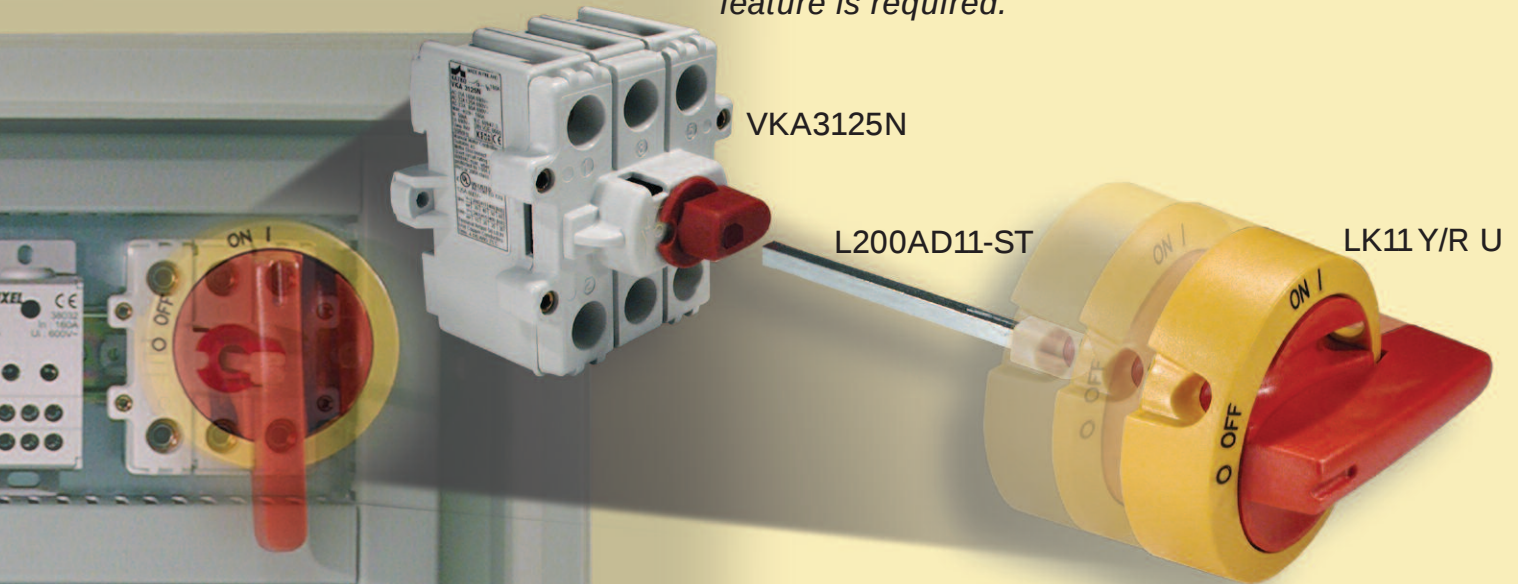


*Altech is a leading supplier
of circuit protection devices
and terminal blocks.*

Application Examples

Extended Handle Motor Disconnect Switch

*Used when the door interlocking
feature is required.*



Direct Handle Motor Disconnect Switch with Door Mounting Kit

*Mounted on the door or on
the side of a panel.*



The KUE series only requires an additional cover plate (see below) which makes the switch IP20 touch proof.



Catalog Number	KUE325	KUE340	KUE363
No. of Poles	3	3	3
General Purpose Current	25A	40A	60A
Maximum Voltage	600V AC	600V AC	600V AC
Motor FLA @ 480V AC	17.5A	28A	34A
Motor FLA @ 600V AC	11A	18A	27A

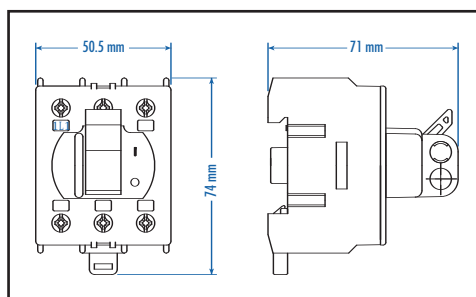
Horsepower Rating /HP	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V AC	1	2	2	3	3	5
200V AC	2	5	3	7.5	5	10
208V AC	2	5	3	7.5	5	10
220-240V AC	3	7.5	5	10	5	10
265V AC	3	7.5	5	10	5	10
277V AC	3	7.5	5	10	7.5	10
380-415V AC	5	10	7.5	15	10	20
440-480V AC	7.5	15	10	20	15	25
550-600V AC	5	10	7.5	15	15	25

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:	10kA	10kA	10kA
K5	50A	50A	60A
RK5	50A	50A	60A (80A@480V AC)
RK1	80A	80A	100A
J	80A	80A	100A

Terminal Size Acceptability (Cu Conductors only, 75°C)	14-8AWG	14-8AWG	12-4AWG
Terminal Torque	16 lb. in.	16 lb. in.	16 lb. in.

Dimensions

(to convert to inches
multiply by 0.03937)



Weight	0.172Kg (0.379lb.)	0.172Kg (0.379lb.)	0.172Kg (0.379lb.)
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Suitable Accessories

Cover Plate



Cat. No.	K/KUE	K/KUEY	R/KUE	R/KUEY
Color	Grey	Yellow	Grey	Yellow
Shape	Rectangular	Rectangular	Circular	Circular

The EVA series
includes a cover plate.



Catalog Number

White Cover/ White Handle
Yellow Cover/ Red Handle

	EVA380 + K/EVA	EVA3100 + K/EVA	EVA3125 + K/EVA	EVA3160 + K/EVA
	EVA380 + K/EVA Y/R	EVA3100 + K/EVA Y/R	EVA3125 + K/EVA Y/R	EVA3160 + K/EVA Y/R
No. of Poles	3	3	3	3
General Purpose Current	80A	100A	125A	150A
Maximum Voltage	600V AC	600V AC	600V AC	600V AC
Motor FLA @ 480V AC	—	—	—	—
Motor FLA @ 600V AC	47A	54A	68A	83A

Horsepower Rating /HP

	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V AC	3	7.5	3	7.5	5	10	7.5	10
200V AC	7.5	10	7.5	15	10	20	10	25
208V AC	7.5	15	7.5	15	10	20	10	25
220-240V AC	7.5	15	10	20	15	25	15	30
265V AC	10	20	10	20	15	25	20	30
277V AC	10	20	10	20	15	30	20	30
380-415V AC	15	25	15	30	20	40	25	50
440-480V AC	20	30	20	40	25	50	30	60
550-600V AC	25	40	30	50	30	60	40	75

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:

	10kA	10kA	10kA	10kA
K5	150A	150A	150A	150A
RK5	150A	150A	150A	150A
RK1	—	—	—	—
J	200A	200A	200A	200A

Terminal Size

Acceptability

(Cu Conductors only, 75°C)

	4-1/0AWG	4-1/0AWG	4-1/0AWG	4-1/0AWG
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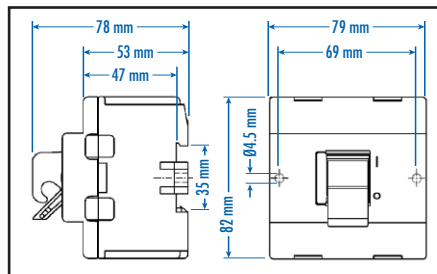
Terminal Torque

	50 lb. in.	50 lb. in.	50 lb. in.	50 lb. in.
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Dimensions

(to convert to inches

multiply by 0.03937)



Weight	0.480Kg (1058lb.) (3 pole)	0.480Kg (1058lb.) (3 pole)	0.480Kg (1058lb.) (3 pole)	0.480Kg (1058lb.) (3 pole)
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Enclosed Motor Disconnect Switch



These enclosed switches can be used locally at the motor.



Catalog Number

Black Handle

Yellow/ Red Handle

	KEM325UL KEM325UL Y/R	KEM340UL KEM340UL Y/R	KEM360UL KEM360UL Y/R	KEM380UL KEM380UL Y/R
No. of Poles	3*	3*	3*	3*
General Purpose Current	25A	40A	60A	80A
Maximum Voltage	600V AC	600V AC	600V AC	600V AC
Motor FLA @ 480V AC	17.5A	28A	34A	—
Motor FLA @ 600V AC	11A	18A	27A	47A

Horsepower Rating /HP

	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V AC	1	2	2	3	3	5	3	7.5
200V AC	2	5	3	7.5	5	10	7.5	10
208V AC	2	5	3	7.5	5	10	7.5	15
220-240V AC	3	7.5	5	10	5	10	7.5	15
265V AC	3	7.5	5	10	5	10	10	20
277V AC	3	7.5	5	10	7.5	10	10	20
380-415V AC	5	10	7.5	15	10	20	15	25
440-480V AC	7.5	15	10	20	15	25	20	30
550-600V AC	5	10	7.5	15	15	25	25	40

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:

	10kA	10kA	10kA	10kA
K5	50A	50A	60A	150A
RK5	50A	50A	60A (80A@480V AC)	150A
RK1	80A	80A	100A	—
J	80A	80A	100A	200A

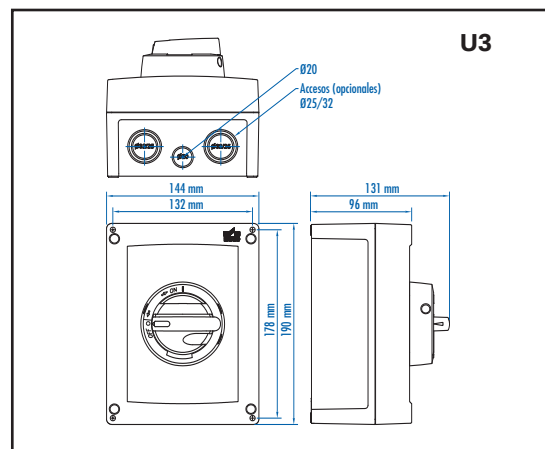
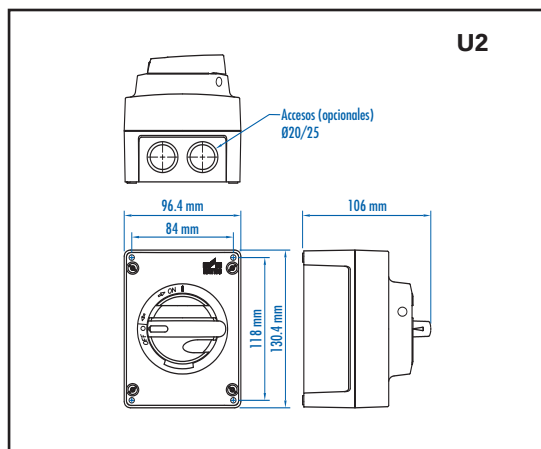
Terminal Size Acceptability

(Cu Conductors only, 75°C)

	14-8AWG	14-8AWG	12-4AWG	4-1/0AWG
Terminal Torque	16 lb. in.	16 lb. in.	16 lb. in.	50 lb. in.
Environmental Rating	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X
Enclosure Type Used	U2	U3	U3	U3

Dimensions

(to convert to inches multiply by 0.03937)



Weight	0.49kg (108 lb.)	0.72kg (1.587 lb.)	0.773kg (1.698 lb.)	1.021kg (2.249 lb.)
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Suitable Accessories

Auxiliary Contacts	KU1V, KU2.V	KU1V, KU2.V	KU1V, KU2.V	VKA1V, VKA2.V
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*Also available in 4 pole models. Contact Altech for part numbers.



KEM3100L
KEM3100L Y/R

3*

100A

600V AC

54A

1 Phase	3 Phase
3	7.5
7.5	15
7.5	15
10	20
10	20
10	20
10	20
15	30
20	40
30	50

10kA

150A

150A

—

200A

4-1/0AWG

50 lb. in.
NEMA Type 4X
MF10



KEM3125L
KEM3125L Y/R

3*

125A

600V AC

68A

1 Phase	3 Phase
5	10
10	20
10	20
15	25
15	25
15	25
15	30
20	40
30	50
30	60

10kA

150A

150A

—

200A

4-1/0AWG

50 lb. in.
NEMA Type 4X
MF10



KEM3150L
KEM3150L Y/R

3*

150A

600V AC

83A

1 Phase	3 Phase
7.5	10
10	25
10	25
15	30
20	30
20	30
25	50
30	60
40	75

10kA

150A

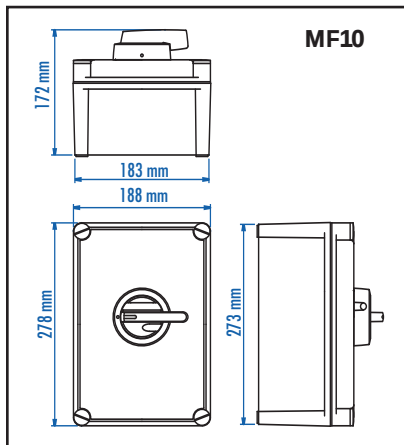
150A

—

200A

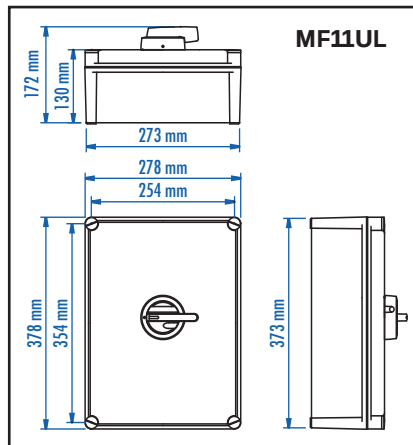
4-1/0AWG

50 lb. in.
NEMA Type 4X
MF11UL



MF10

19051kg (4.2 lb.)



MF11UL

19051kg (4.2 lb.)

2.8351kg (6.25 lb.)

VKA1V, VKA2.V

VKA1V, VKA2.V

VKA1V, VKA2.V

FUSED



KKVM332, KKVM332CC
KKVM332 Y/R, KKVM332CC Y/R

3

30A

600V AC

Cat. No.	Fuse Type
KKVM 332 (Y/R)	10x38, Midget
KKVM 332CC (Y/R)	Class CC

10kA

50A

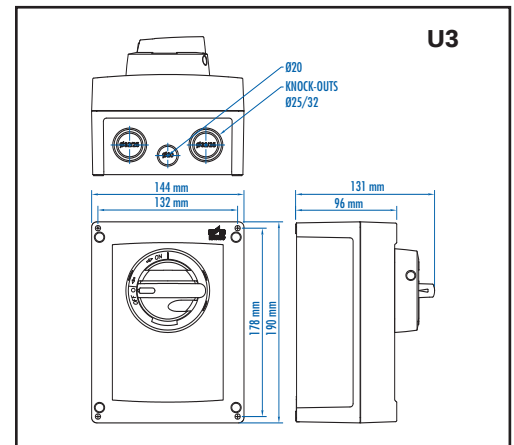
50A

80A

80A

14-8AWG

16 lb. in.
NEMA Type 4X
U3



U3

0.998kg (2.2 lb.)

KU1V, KU2.V

Stainless Steel Enclosed Motor Disconnect Switch



These enclosures are ideal where chemicals are used for cleaning and maintenance such as food processing plants and breweries. Mining is another application area. Their stainless steel construction is extremely resistant to corrosion, and the enclosure is also rated to IP66.



Catalog Number

Black Handle

Yellow/ Red Handle

No. of Poles
General Purpose Current
Maximum Voltage
Motor FLA @ 480V AC
Motor FLA @ 600V AC

KER325UL
KER325UL Y/R

3*
25A
600V AC
17.5A
11A

KER340UL
KER340UL Y/R

3*
40A
600V AC
28A
18A

Horsepower Rating /HP

110-120V AC
200V AC
208V AC
220-240V AC
265V AC
277V AC
380-415V AC
440-480V AC
550-600V AC

1 Phase	3 Phase
1	2
2	5
2	5
3	7.5
3	7.5
3	7.5
5	10
7.5	15
5	10

1 Phase	3 Phase
2	3
3	7.5
3	7.5
5	10
5	10
5	10
7.5	15
10	20
7.5	15

Short Circuit Withstand Rating at 600 V with Max. Fuse Size/Class:

K5
RK5
RK1
J

10kA
50A
50A
80A
80A

10kA
50A
50A
80A
80A

Terminal Size Acceptability

(Cu Conductors only, 75°C)

Terminal Torque
Environmental Rating
Enclosure Type Used

14-8AWG

14-8AWG

16 lb. in.

16 lb. in.

NEMA Type 4X

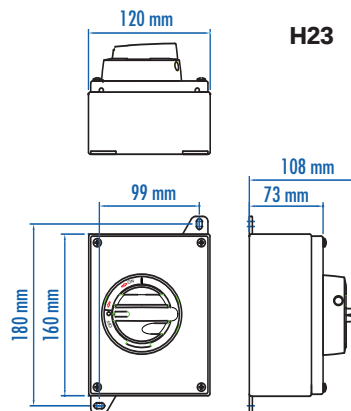
NEMA Type 4X

H23

H23

Dimensions

(to convert to inches multiply by 0.03937)



Weight

12kg (2.646 lb)

Suitable Accessories

Auxiliary Contacts

KU1V, KU2.V

KU1V, KU2.V

*Also available in 4 pole models. Contact Altech for part numbers.



KER360UL
KER360UL Y/R

3*

60A

600V AC

34A

27A

1 Phase	3 Phase
3	5
5	10
5	10
5	10
5	10
7.5	10
10	20
15	25
15	25

10kA

60A

60A (80A@480V AC)

100A

100A

12-4AWG

16 lb. in.

NEMA Type 4X

H32

KER380UL
KER380UL Y/R

3*

80A

600V AC

—

47A

1 Phase	3 Phase
3	7.5
7.5	10
7.5	15
7.5	15
10	20
10	20
15	25
20	30
25	40

10kA

150A

150A

—

200A

4-1/0AWG

50 lb. in.

NEMA Type 4X

H32

KER3100UL
KER3100UL Y/R

3*

100A

600V AC

—

54A

1 Phase	3 Phase
3	7.5
7.5	15
7.5	15
10	20
10	20
10	20
15	30
20	40
30	50

10kA

150A

150A

—

200A

4-1/0AWG

50 lb. in.

NEMA Type 4X

H32

KER3125UL
KER3125UL Y/R

3*

125A

600V AC

—

68A

1 Phase	3 Phase
5	10
10	20
10	20
15	25
15	25
15	30
20	40
30	50
30	60

10kA

150A

150A

—

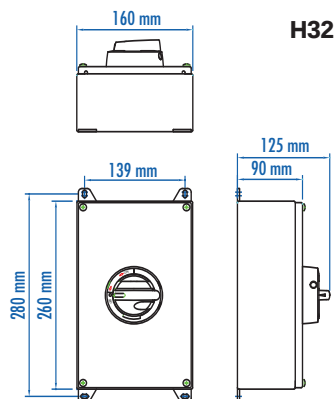
200A

4-1/0AWG

50 lb. in.

NEMA Type 4X

H32



H32

2.3kg (5.071 lb..)

1021kg (2.249 lb.)

19051kg (4.2 lb.)

19051kg (4.2 lb.)

KU1V, KU2.V

VKA1V, VKA2.V

VKA1V, VKA2.V

VKA1V, VKA2.V

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EVA3160 + K/EVA	11	KKVM322CC	13
EVA3160 + K/EVA Y/R	11	KKVM322CC Y/R	13
EVA380 + K/EVA	11	KU1.V	6
EVA380 + K/EVA Y/R	11	KU2.V	6
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K/KU3P Y/R	7	KU340N	4
K/KU4P	7	KU363N	4
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K/KUE	10	KUE340	10
K/KUE Y	10	KUE363	10
K/VKA3-4P	7	KV 10x38	6
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KEM380UL Y/R	12	R/KUE	10
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