

AUTOMATIC TRANSFER SWITCHES

Product Guide

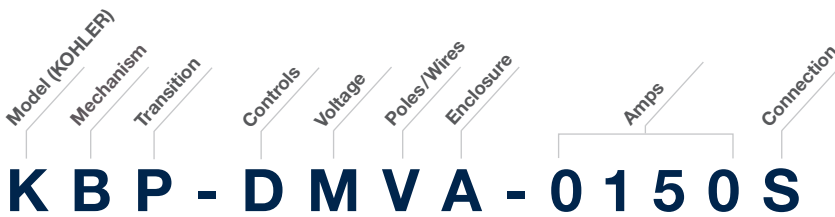


KOHLER®

CUSTOM CONFIGURATION

The chart tells the story.

You can custom configure switches by choosing the exact components needed. This standard process allows Kohler to provide the correct switch for your application with delivery in the shortest amount of time. Each letter and numeral corresponds to a specific element of the automatic transfer switch (ATS). Here's an example.



KOHLER. AUTOMATIC TRANSFER SWITCH (K)

- Bypass-isolation mechanism (B)
- Programmed transition (P)
- Decision-Maker[®] MPAC[®] 1500 controller (D)
- 480 V, 60 Hz (M)
- 4-pole, 4-wire with switched neutral (V)
- NEMA 1 enclosure (A)
- Rated at 150 amps (0150)
- Standard connection (S)



KBP-DMVA-0150S

Mechanism	Transition	Controls	Voltage	Poles/Wires
S – Standard (Specific Breaker)	S – Standard	A – MPAC 1200	C – 208 V / 60 Hz	T – 3-Pole / 4-Wire, Solid Neutral
C – Standard (Time-based)	P – Programmed	D – MPAC 1500	D – 220 V / 50 Hz	N – 2-Pole / 3-Wire, Solid Neutral
B – Mechanically Operated Bypass-Isolation	C – Closed	B – MPAC 1200 Nonautomatic	F – 240 V / 60 Hz	V – 4-Pole / 4-Wire, Switched Neutral
A – Electrically Operated Bypass-Isolation		F – MPAC 1500 Nonautomatic	G – 380 V / 50 Hz	W – 4-Pole / 4-Wire, Overlapping Neutral
E – SERVICE ENTRANCE			H – 400 V / 50 Hz	
			J – 416 V / 50 Hz	
			K – 440 V / 60 Hz	
			M – 480 V / 60 Hz	
			N – 600 V / 60 Hz	
			P – 380 V / 60 Hz	
			R – 220 V / 60 Hz	
			S – 400 V / 60 Hz	
Enclosure	Amps	Connection	Utility (KEP)	Generator (KEP)
A – NEMA 1	30–4000	S – Standard	M – MCCB TM 100–200 A	K – MCSW 100–1200 A
B – NEMA 12		F – Front	N – MCCB ET 250–800 A	M – MCCB TM 100–200 A
C – NEMA 3R			P – MCCB ET GF 1000–1200 A	N – MCCB ET 250–1200 A
D – NEMA 4			R – ICCB ET 800 A	Q – ICSW 800–4000 A
F – NEMA 4X			T – ICCB ET GF 1000–4000 A	R – ICCB ET 800–4000 A
G – OPEN				

MCCB = Molded-Case Circuit Breaker
ICCB = Insulated-Case Circuit Breaker

MCSW = Molded-Case Switch
ICSW = Insulated-Case Switch

TM = Thermal-Magnetic Trip Unit
ET = Electronic Trip Unit

THERE ARE THOUSANDS OF WAYS TO CUSTOM CONFIGURE AN AUTOMATIC TRANSFER SWITCH. HERE'S AN OVERVIEW.

STANDARD ATS Has a single mechanism that transfers the load from one power source to another power source.

Models	Mechanisms	Transitions	Controllers	Voltages	Poles/Wires	Enclosures	Amps	Connections
K	S	S	A, B	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F, G	30, 70, 104, 150	S
K	S	S	A, B	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F, G	200, 230	S
K	S	S	A, B	N	N, T, V, W	A, B, C, D, F, G	230	S
K	S	S	A, B	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V, W	A, B, C, D, F, G	260, 400, 600, 800	S
K	S	S	A, B	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, B, C, D, F, G	1000, 1200	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F, G	30, 70, 104, 150	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F, G	200, 230	S
K	C	S	A, B, D, F	N	N, T, V, W	A, B, C, D, F, G	230	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V, W	A, B, C, D, F, G	260, 400, 600, 800	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, B, C, D, F, G	1000, 1200	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, C, G	1600, 2000	F
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, C, G	1600, 2000, 2600, 3000	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, C	4000	S
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F, G	150, 225, 260, 400, 600, 800	S
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, B, C, D, F, G	1000, 1200	S
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C, G	1600, 2000	F
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C, G	1600, 2000, 2600, 3000	S
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C	4000	S
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, B, C, D, F	150, 260, 400, 600, 800	S
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, B, C, D, F	1000, 1200	S
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C	1600, 2000	F
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C	1600, 2000, 2600, 3000, 4000	S

BYPASS-ISOLATION ATS Bundles an automatic and a manual transfer switch into a single unit.

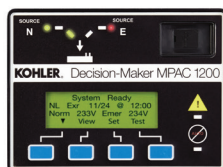
Models	Mechanisms	Transitions	Controllers	Voltages	Poles/Wires	Enclosures	Amps	Connections
K	B	S	D	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V, W	A, C	150, 225, 260, 400, 600	S
K	B	S	D	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, C	800, 1000, 1200	F
K	B	S	D	C, D, F, G, H, J, K, M, N, P, R, S	T, V, W	A, C	800, 1000, 1200, 1600, 2000, 2600, 3000, 4000	S
K	B	P, C	D	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, C	150, 225, 260, 400, 600	S
K	B	P, C	D	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C	800, 1000, 1200	F
K	B	P, C	D	C, D, F, G, H, J, K, M, N, P, R, S	T, V	A, C	800, 1000, 1200, 1600, 2000, 2600, 3000, 4000	S
K	A	S	D	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V, W	A, C	150, 225, 260, 400, 600	S
K	A	P	D	C, D, F, G, H, J, K, M, N, P, R, S	N, T, V	A, C	150, 225, 260, 400, 600	S

SERVICE-ENTRANCE ATS Serves as both ATS and utility disconnect; circuit breakers and motor operators are used as the switch mechanism.

Models	Mechanisms	Transitions	Controllers	Voltages	Poles/Wires	Enclosures	Amps	Connections	Utility Disconnects	Generator Disconnects
K	E	P	D	C, F, K, M, R	N, T, V	A, B, C, D, F	100, 150	S	M	K, M
K	E	P	D	C, F, R	N, T	A, B, C, D, F	200	S	M	K, M
K	E	P	D	C, F, K, M, R	N, T, V	A, B, C, D, F	250, 400, 600, 800	S	N	K, N
K	E	P	D	C, F, K, M, R	T, V	A, B, C, D, F	1000, 1200	S	P	K, N
K	E	P	D	C, F, K, M, R	T, V	A, C	800	S	R	Q, R
K	E	P	D	C, F, K, M, R	T, V	A, C	1000, 1200, 1600, 2000, 2500, 3000	S	T	Q, R
K	E	P	D	C, F, K, M, R	T	A, C	4000	S	T	Q, R

DECISION-MAKER[®] MPAC[®] CONTROLLERS

Two options. Two solutions.



MPAC1200

A customizable solution for your specific application. The ATS1200 gives you full control of system behavior including extended I/O to customize your needs.



MPAC1500

When you need to manage your loads, use your system as a prime power application or have a backup for your backup (i.e., a three-source system). This controller gets the job done.

Voltage and Frequency Settings		
Pickup / Dropout normal source voltage	Programmable	Programmable
Pickup / Dropout emergency source voltage	Programmable	Programmable
Frequency selection	50/60 Hz	50/60 Hz
Pickup / Dropout normal source frequency		Programmable
Pickup / Dropout emergency source frequency	Programmable	Programmable
Overvoltage trip	Programmable	Programmable
Overfrequency trip	Programmable	Programmable
Normal and emergency voltage unbalance	Standard	Standard
In-phase monitor	Standard	Standard
Transfer commit	Standard	Standard
Phase rotation sensing	Standard	Standard
Time Delays and Configuration Settings		
Transfer to emergency / Transfer to normal	Programmable	Programmable
Engine cooldown	Programmable	Programmable
Generator exerciser	21 exercise events	21 exercise events
Remote peak shave	Standard	Standard
Start-time delay	Programmable (emergency only)	Programmable
Fail to acquire	Programmable (emergency only)	Programmable
Communications		
RS-485	Standard	Standard
Ethernet	Optional	Standard
Accessories		
Programmable engine exerciser	Standard	Standard
Extended I/O	Optional (up to 4 modules)	Optional (up to 4 modules)
Digital meter	Optional	Optional
Source priority selector	Optional	Optional
Extended engine start-time delay	Optional	Optional
Controller disconnect switch	Optional	Optional
Load shed	Optional	Optional
Load control	Time-based	Time- or current-based
Three-source system		Standard
Prime power		Standard

THE ATS LINEUP

Peace of mind starts here.

Bridging the gap between loss of utility and standby power is no small task. KOHLER® automatic transfer switches (ATS) are designed to meet that challenge, distributing power to feed the critical loads of your facility.

Every transfer switch needs a controller to ensure transfer of power from utility to generator and back again. KOHLER Decision-Maker® MPAC® controllers offer clear choices in matching function to application.

STANDARD FEATURES

Multiple Applications

Find the perfect option. KOHLER automatic transfer switches are available in standard, bypass-isolation, and service-entrance configurations with open, closed, and programmed transition operating modes, from 30 to 4000 amps.

Seamless System Integration

Everything works together. KOHLER transfer switches are designed to interface perfectly with KOHLER generators and paralleling switchgear.

Advanced Communications

Every transfer switch comes fully loaded with the technology to do the job. Ethernet and Modbus communications capabilities are available.

Certified Packages

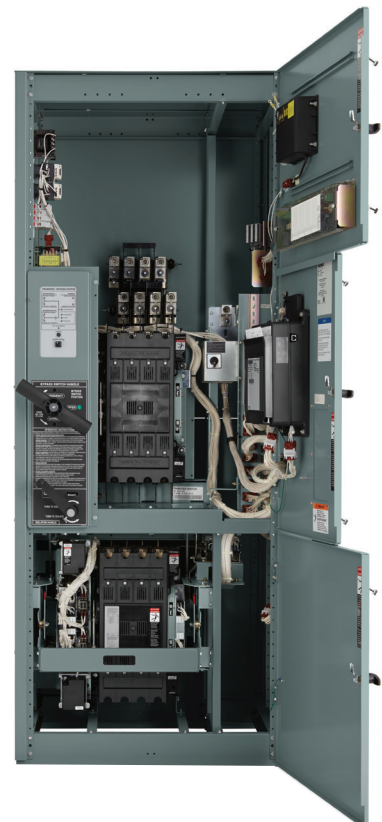
Transfer switches are UL-listed and have CSA and IBC certifications available.



Standard ATS



Service-Entrance ATS



Bypass-Isolation ATS

North America 800.544.2444

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