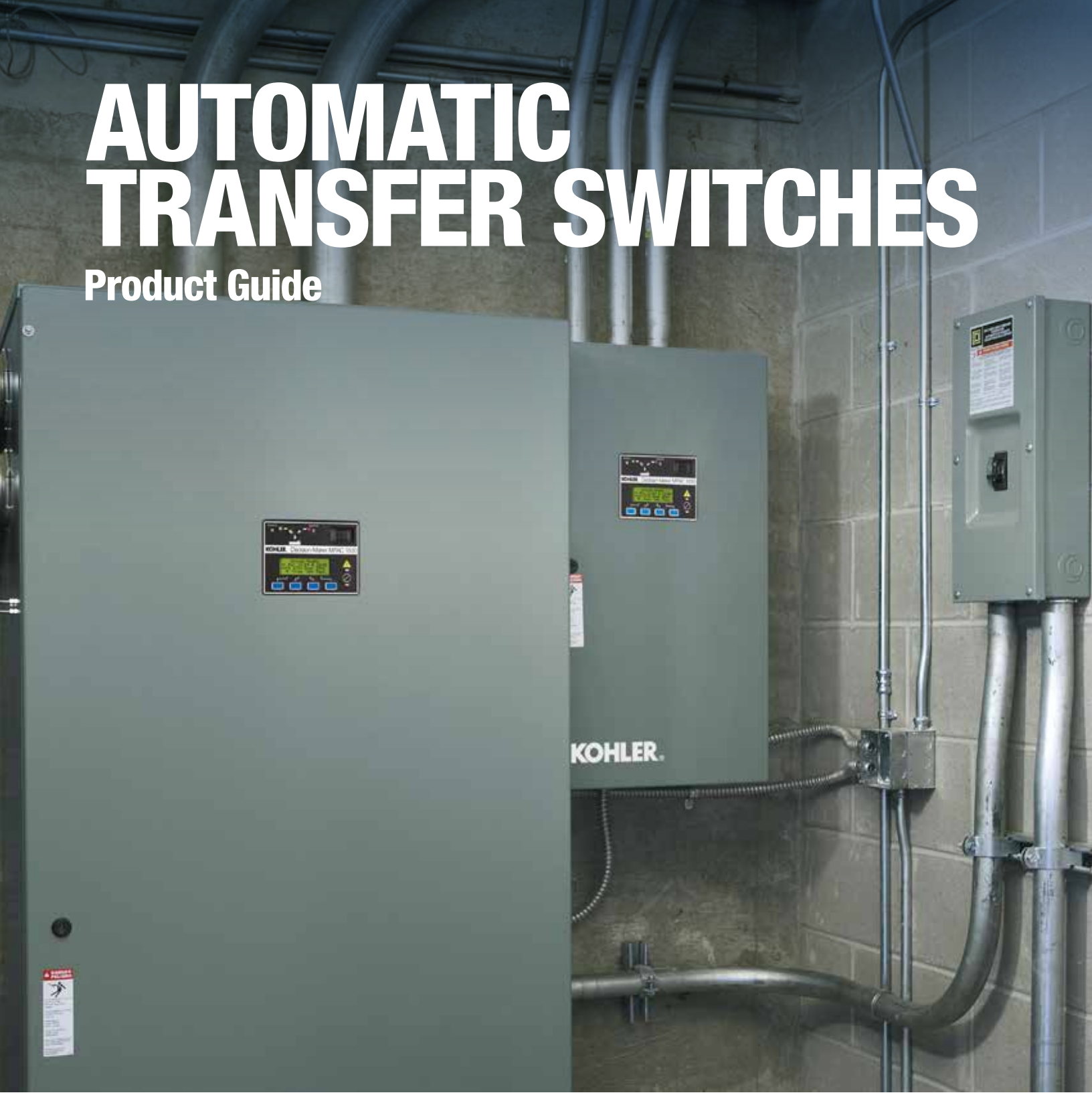
AUTOMATIC TRANSFER SWITCHES

Product Guide



KOHLER®
IN POWER. SINCE 1920.

CUSTOM CONFIGURATION

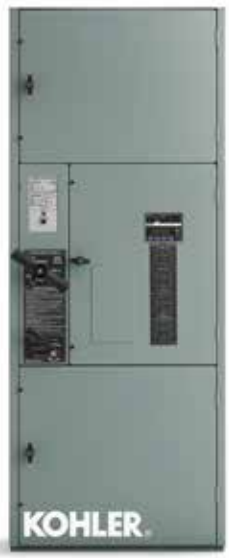
The chart tells the story.

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 ATS. Here's an example.

Model (KOHLER)	Mechanism	Transition	Controls	Voltage	Poles/Wires	Enclosure	Amps			Connection
K	B	P	-	D	M	V	A	-	0150	S

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-0150B

Mechanism	Transition	Controls	Voltage	Poles/Wires
S – Standard (Specific Breaker)	S – Standard	J – MPAC 750	C – 208 V / 60 Hz	T – 3-Pole / 4-Wire, Solid Neutral
C – Standard (Any Breaker)	P – Programmed	A – MPAC 1200	D – 220 V / 50 Hz	N – 2-Pole / 3-Wire, Solid Neutral
B – Bypass-Isolation (Type B)	C – Closed	D – MPAC 1500	F – 240 V / 60 Hz	V – 4-Pole / 4-Wire, Switched Neutral
G – Bypass-Isolation (Type G)		B – MPAC 1200 nonautomatic	G – 380 V / 50 Hz	W – 4-Pole / 4-Wire, Overlapping Neutral
E – Service Entrance		F – MPAC 1500 nonautomatic	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	

Enclosure	Amps	Connection	Utility (KEP)	Generator (KEP)
	30—4000	S – Standard	M – MCCB TM 100–200 A	K – MCSW 100–1200 A
		F – Front	N – MCCB ET 250–800 A	M – MCCB TM 100–200 A
			P – MCCB ET GF 1000–1200 A	N – MCCB ET 250–1200 A
			R – ICCB ET 800 A	Q – ICSW 800–4000 A
			T – ICCB ET GF 1000–4000 A	R – ICCB ET 800–4000 A

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, J	C, D, F, G, H, J, K, M, P, R	N, T, V	A, B, C, D, F, G	40, 80, 100, 150, 200, 225, 260, 400, 600, 1000	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R	N, T, V, W	A, B, C, D, F, G	30, 70, 104, 150, 230, 260, 400, 600, 800	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R	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	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	T, V, W	A, C	4000	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, P, R	N, T, W	A, B, C, D, F, G	200	S
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R	N, T, W	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	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	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	T, V	A, C	4000	S
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R	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	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	T, V	A, C	1600, 2000, 3000, 4000	S
K	C	S	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R	T, V, W	A, C, G	1600, 2000	F
K	C	P	A, B, D, F	C, D, F, G, H, J, K, M, N, P, R	T, V	A, C, G	1600, 2000	F
K	C	C	A, D	C, D, F, G, H, J, K, M, N, P, R	T, V	A, C	1600, 2000	F

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	N, T, V, W	A	150, 225, 260, 400	S
K	B	S	D	C, D, F, G, H, J, K, M, N, P, R	T, V, W	A	600, 800, 1000, 1200, 1600, 2000, 2600, 3000, 4000	S
K	B	P	D	C, D, F, G, H, J, K, M, N, P, R	N, T, V	A	150, 225, 260, 400, 600, 1000, 1200, 1600, 2000, 2600, 3000, 4000	S
K	B	S	D	C, D, F, G, H, J, K, M, N, P, R	T, V, W	A	800	F
K	B	P, C	D	C, D, F, G, H, J, K, M, N, P, R	T, V	A	800	S, F
K	B	C	D	C, D, F, G, H, J, K, M, N, P, R	N, T, V	A	150, 260, 240, 600	S
K	B	C	D	C, D, F, G, H, J, K, M, N, P, R	T, V	A	1000, 1200, 1600, 2000, 3000, 4000	S
K	G	S, P	D	C, D, F, K, M, R	N	A	150, 225, 260, 400	S
K	G	S, P	D	C, D, F, G, H, J, K, M, N, P, R	T, V	A	150, 225, 260, 400, 600, 800, 1000, 1200	S

SERVICE ENTRANCE 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, F	100, 150	S	M	K, M
K	E	P	D	C, F, R	N, T	A, B, C, F	200	S	M	K, M
K	E	P	D	C, F, K, M, R	N, T, V	A, B, C, F	250, 400, 600, 800	S	N	K, N
K	E	P	D	C, F, K, M, R	T, V	A, B, C	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, 4000	S	T	Q, R

DECISION-MAKER® MPAC CONTROLLERS

Three options. Endless solutions.

MPAC750

Control critical system settings with a no-frills controller that gets the job done. Set time delays, create a system exercise and transfer loads as required.

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	Programmable
Pickup / Dropout emergency source voltage		Programmable	Programmable
Frequency selection	50/60 Hz	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
Inphase monitor	Standard	Standard	Standard
Transfer commit		Standard	Standard
Phase rotation sensing		Standard	Standard
Time Delays and Configuration Settings			
Transfer to emergency / Transfer to normal	Programmable	Programmable	Programmable
Engine cooldown	Fixed	Programmable	Programmable
Generator exerciser	7-Day	21 exercise events	21 exercise events
Remote peak shave		Standard	Standard
Start-time delay	Programmable (emergency only)	Programmable (emergency only)	Programmable
Fail to acquire	Programmable (emergency only)	Programmable (emergency only)	Programmable
Communications			
RS-485	Standard	Standard	Standard
Ethernet	Optional	Optional	Standard
Accessories			
Programmable engine exerciser	Optional external device	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	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.

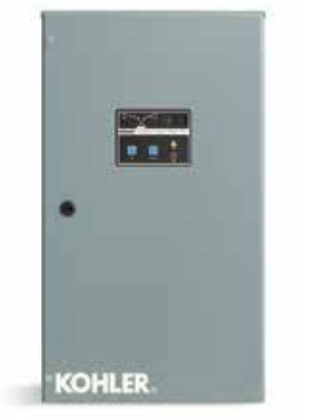
STANDARD FEATURES

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.

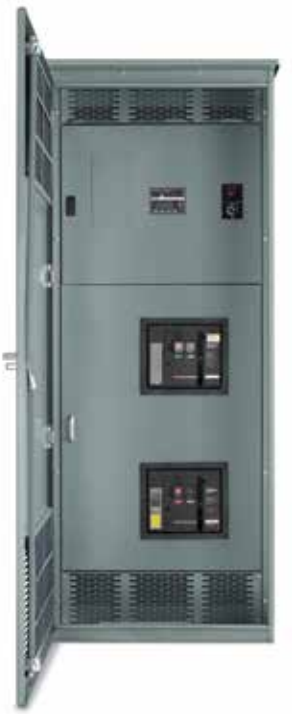
Seamless System Integration
Everything works together. KOHLER transfer switches are designed to interface perfectly with KOHLER generators and paralleling switchgear.

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

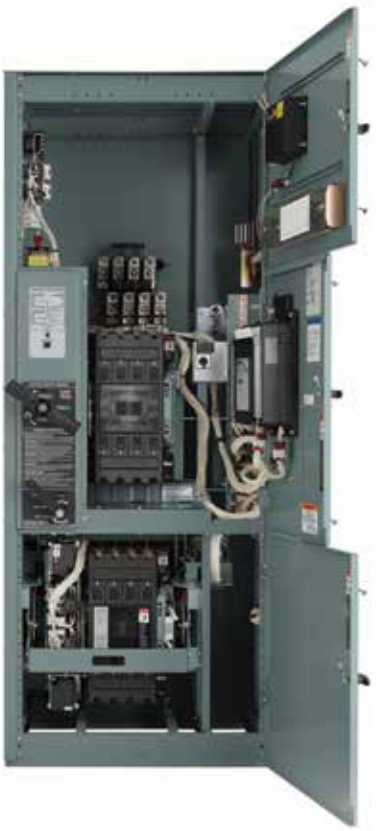
Certified Packages
Transfer switches are UL-listed and have CSA and IBC certifications available.



Standard ATS



Service-Entrance ATS



Bypass-Isolation ATS

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