

Kubota Run/Stop

Super Mini Z482, Z602, D662, D722, D782, and D902

Description

The Kubota (CTE run/stop solenoids are designed to control the shutdown lever. These solenoids have a dedicated bracket to mount above the front gear housing on the engine. The solenoid linkage hooks directly into the run/stop lever.

Where used:

- Newly build applications;
- To convert from ETS to ETR operation or vice versa;
- To convert 12 to 24 Vdc battery system or vice versa;
- To upgrade to a high-performance run/stop control.

Solenoid control (ETS & ETR)

The solenoids are available for ETS or ETR applications. An ETS system means the solenoid needs to be Energized-To-Stop the engine. Choosing for an ETS system implies that when the engine is running, the stop solenoid is de-energized. Although this is a simple system suited for many stationary applications, it can be vulnerable to excessive vibration and/or oscillation.

An ETR system implies the solenoid needs to be Energized-To-Run the engine. The engine will run as long as the solenoid is energized. The built-in mechanical spring will stop the engine when the solenoid is de-energized. Therefore, an ETR system is also called a fail-safe system, because if power is lost, the engine will stop. It is better suited for mobile application as the lever is under constant tension.

Solenoid type (SC & TC)

There are two coil configurations available: single (SC) and two-coil (TC). The two-coil solenoids have a separate pull and hold coil which can be switched independently.



Single coil ETS



Single coil ETR



Two-coil ETR

Kubota (CTE run/stop solenoids)

Operation	Solenoid type	Termination	12Vdc	24Vdc
ETS	SC	1-wire (Bat + / Grounded)	KSM-S1-12	
ETR	SC	2-wire (Bat + / Bat -)	KSM-R1-12	KSM-R1-24
ETR	TC	3-wire (Pull + / Hold + / Bat -)	KSM-R2-12	KSM-R2-24

System packaging is done to meet our customer's requirements. The application for which the engine is used determines what is the best solution. Get in touch with our Sales team to explore your requirements and the possibilities for your application.

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Technical Specifications

Solenoid ETS (Smin)		
Operating Voltage	12 Vdc	24 Vdc
Rated current at 20°C	13 A	<i>On request, OEM only</i>
Stroke	9 mm (+/- 0,6 mm)	
Termination	Lead wire + Fast-on, 12cm min.	
Temperature	-40 °C to 120 °C	
Materials	Corrosion-resistant	
Weight	420 gram	
Solenoid ETR (Smin SC)		
Operating voltage	12 Vdc	24 Vdc
Rated current at 20°C	55 A	29 A
Stroke	9 mm (+/- 0,6 mm)	
Termination	Lead wires, 40 cm min. (connector optional)	
Temperature	-40 °C to 120 °C	
Materials	Corrosion-resistant	
Weight	600 gram	
Solenoid Style 3 (Smin TC)		
Operating voltage	12 Vdc	24 Vdc
Rated current at 20°C (pull/hold)	46 / 1,1 A	25 / 0,5 A
Termination	Lead wires, 15 cm min. (connector optional)	
Temperature	-40 °C to 105 °C	
Materials	Corrosion-resistant	
Weight	800 gram	

IMPORTANT: Solenoids need to be protected against burn-out. Special commander modules and fuses are available to perform this function. Please contact our Sales team for more information.