

Image shown may not reflect actual transmission

S9825 Series

RATINGS

Straight-Thru Model		Input Power gross	hp (kW) net	Input Torque gross	lb-ft (N·m) net	Turbine Torque Gross lb-ft (N·m)
S9825	Oil Field Pumping	2500 (1864)	2500 (1864)	7750 (10507)	7750 (10507)	8000 (10847)

ENGINE INTERFACE

Acceptable full-load engine governed speed	1800 – 2100 rpm
Minimum engine idle speed range (with transmission in Drive)	550 rpm

MOUNTING

Direct	SAE No. 0 automatic flywheel housing with flexplate drive. Cradle mount using engine flywheel housing mounting pads and transmission rear cover mounting pads with 0.625-11 inch series bolts
Remote	Side pads on transmission rear cover plus front trunnion mount

TORQUE CONVERTER

Type Single stage, three element, polyphase.

Model	Stall Torque Ratio	Kp-Factor* at Stall
TC-1060	1.86	39.1 (33.6)
TC-1070	1.78	30.5 (26.2)
TC-1078	1.84	28.6 (24.5)
TC-1080	1.61	25.8 (22.2)

* Kp-Factor defines torque converter capacity. Kp = the ratio of converter pump speed [rpm] divided by the square root of the pump torque [lb-ft (N·m)]

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)

Range	
First	3.75 : 1
Second	2.69 : 1
Third	2.20 : 1
Fourth	1.77 : 1
Fifth	1.58 : 1
Sixth	1.27 : 1
Seventh	1.00 : 1
Eighth	0.72 : 1
Reverse	Not Available

Ratio Coverage

Forward	5.21
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CONTROL SYSTEM

Description	Allison CEC 3
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OPTIONAL ENGINE-DRIVEN POWER TAKE-OFF PROVISION¹

Side mount

Location		5 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)

Top Mount

Location		12 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)

ELECTRONIC SPEEDOMETER PROVISION

Description	Magnetic speed sensor, 41 pulses per output shaft revolution
Location	Output signal from transmission TCM

SIZE

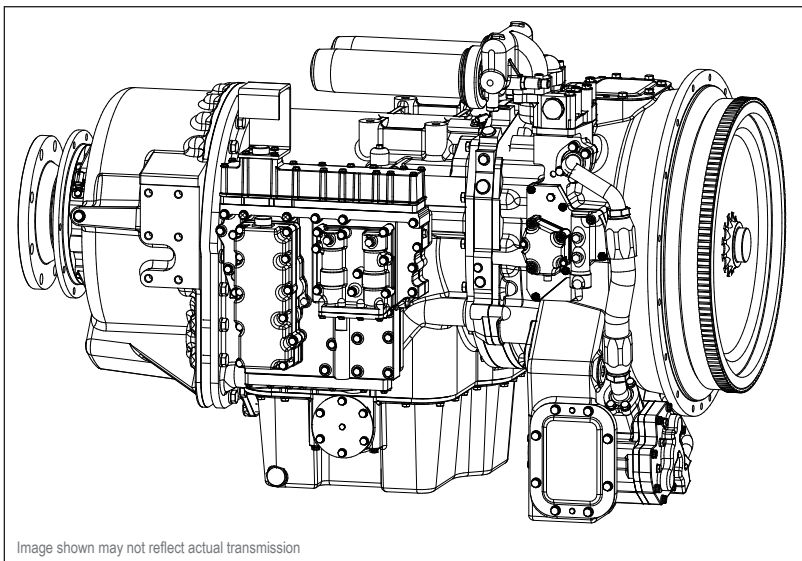
Depth (below horizontal centerline)		20.9 in (531 mm)
Length (direct mount) ^{2,3}		55.5 in (1411 mm)
Width		35.1 in (892 mm)
	Height	Approx. Dry Weight
Basic model	35.3 in (896 mm)	4000 lb (1814 kg)
With direct mount filters	39.8 in (1011 mm)	4000 lb (1814 kg)
With top engine-driven PTO drive gear		4030 lb (1828 kg)
With remote mount		4080 lb (1851 kg)

OIL SYSTEM

Oil type	TES 439, (See " www.allisontransmission.com " for approved list)
Capacity excluding external circuits	21.0 gallons (79 litres)
Main circuit oil filter	
Standard	Manifold for full-flow, remote mounted, Replaceable element
Optional	Direct-mount full flow, replaceable elements (2)
Cooler circuit oil filter (optional)	Replaceable element, remote-mounted

1. PTO ratings apply to both top and side. Combined totals cannot exceed individual ratings.
2. For remote mounting, add 11 in (279 mm).
3. Length is approximate from engine/converter mounting surface to face of typical output flange.

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Information or specifications subject to change without notice or obligation.