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Engine GEBAR type LDS-327

Engine GEBAR type LDS-327 is used to drive mining devices, especially for bottom mining rechargeable locomotives, used in underground excavations classified as levels a, b and c of methane explosion hazard and levels A or B of coal dust explosion hazard.



Engine GEBAR type LDS-327 is a serial engine conducting direct current. It is cooled with the air. It has an explosion-proof construction with a fireproof protection "d". The device is classified to the group I devices category M2. Engine's casing provides the level IP54 of protection from the access of dangerous parts and the ingress of foreign bodies and water to inner parts. The engine is adopted to being powered from the traction network with a voltage 144V. The engine works at full field current. The regulation of rotation velocity and the voltage of installed engine is provided by the transistor control system type TUSO, TUSO/M and/or TURO. The engine is marked with a feature of flameproof construction I M2 Ex d I Mb according to European norms in accordance with directive 94/9/WE(ATEX).

Technical specification

Parameters		Values	
Work type		S2-60min	S9
Rated power	P_N [kW]	40	18
Supply voltage	U_N [V]	144	
Rated current	I_N [A]	355	188
Efficiency	η [%]	87	86
Rotation velocity	n [min^{-1}]	1060	1540
Nominal torque	T_N [Nm]	398	118
Excitation		Serial	
Excitation level		100%	
Max. rotation velocity	[min^{-1}]	2500	
Temperature range	$^{\circ}\text{C}$	$- 20^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$	
Construction		explosionproof	
Security level	-	IP 54	
Isolation class	-	F	
Marking	-	 I M2 Ex d I Mb	
Engine mass	[kg]	700	
Engine parameters	[mm]	870x580x700	