



Imperial DC Gearless Elevator Motors Basic Ratings

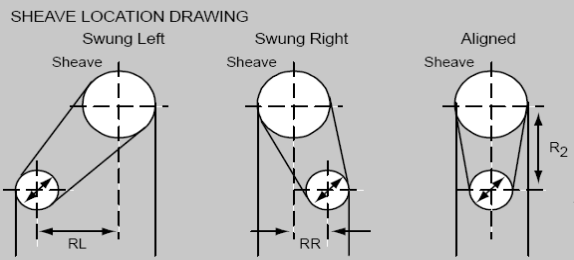
Imperial Frame Size	Rated Torque (Ft-Lb)	WK ² Armature & 26" Sheave (Lb-Ft ²)	Armature Volts per RPM (V/RPM)	Armature Amps (A)	Armature Resistance Hot (Ω)	Armature Circuit Inductance (H)	Field Voltage (V)	Field Amps (A)	Field Resistance (Ω)	L/R Field Time Constant (S)
DGR-591	1,725	1,149	1.346	180	0.117	7.17	195	8.35	23.41	0.94
DGR-593	2,300	1,232	1.790	180	0.132	9.56	183	10.50	17.40	1.08
DGR-596	2,875	1,315	2.236	180	0.138	11.79	195	11.00	17.73	1.16
DGR-598	3,250	1,438	2.915	180	0.146	15.53	198	13.20	15.02	1.29

Typical Rating Requirements for Imperial Gearless		
Roping	2:1	1:1
Counter Weight (%)	40	40
Acceleration Rate (Ft/s ²)	4	4
Live Loads (Lb)	2,000 to 8,500	2,000 to 4,500
Speeds (F.P.M.)	400 to 700	500 to 1,000
Total Suspended Weight (Lb)	15,400 to 32,000	15,400 to 19,000

Sheave Data	
Diameter (In)	WK ² (Lb-Ft ²)
26	762
30	1,012
33	1,332

Gearless Elevator Survey Form

Job:			
Customer:			
Date:			
Surveyor:			
Installing New Gearless:	<input type="checkbox"/> AC	<input type="checkbox"/> DC	
Quantity:			
Roping:			
# of Cables:			
Cable Size (In.):			
Cable Type:	<input type="checkbox"/> Traction Steel	<input type="checkbox"/> Extra High Strength Traction Steel	
Car Capacity (Lbs):			
Full Load Speed (F.P.M.):			
Acceleration Required:			
Counter Weight (%):			
Car Weight (Lbs):			
Travel (Ft.)			
Motor Sheave Wrap:	<input type="checkbox"/> SINGLE	<input type="checkbox"/> DOUBLE	
Motor Sheave Groove:	<input type="checkbox"/> U	<input type="checkbox"/> Under Cut U	<input type="checkbox"/> V
Motor Sheave Pitch Diameter (In.):			
Total Suspended Weight (Lbs):			
Deflector Sheave Position* **(In.):	R2 _____	RR _____	RL _____
Deflector Sheave Diameter* (In.):			
Rope Drop* (In):			
Motor Location:	<input type="checkbox"/> OVERHEAD	<input type="checkbox"/> BASEMENT OR SIDE	
Fully Compensated:	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Encoder/Tachometer:	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Split Frame Construction:	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Breakdown Crating:	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Insulation Class Requirments:			
Controller Manufacture:			
Drive Manufacture:			
Customer Remarks:			



*** Gearless AC Imperial Electric Supplied Substructure/Deflector Require Complete Hoistway Drawings**

** Reference Drawing 3-0090-0003 DC Gearless

E-2334

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