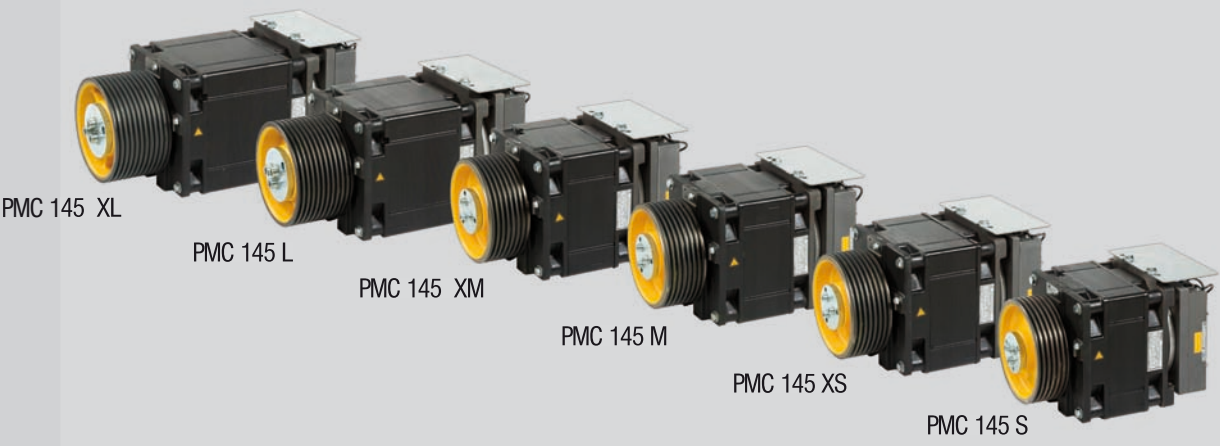


Gearless-Drives



Drive Technology for MRL and Modernisation



Drives which move you SAFELY

Efficient
Our PMC 145 synchronous gearless series are the world's most compact drives in terms of application and energy efficiency for new lifts and modernisation.

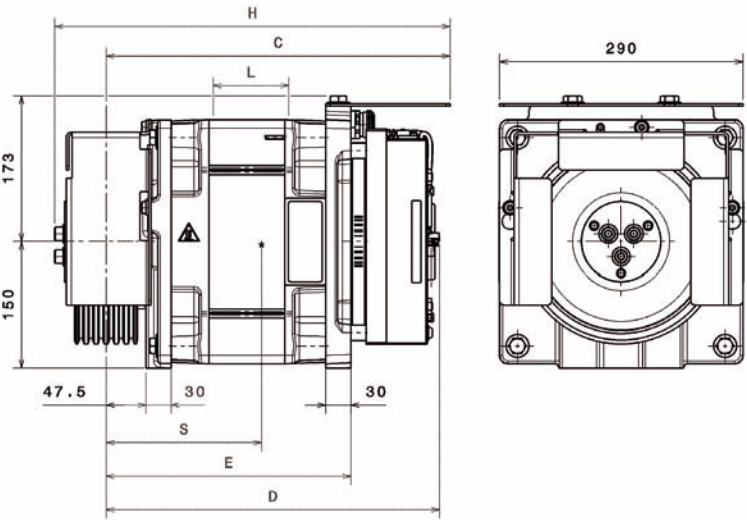
Safety
At LiftEquip dual circuit safety brakes are fitted as standard to our Gearless machines. Our brakes are certified for uncontrolled up-ward movement to EN81-1/9.10.

Compact
An important advantage of the PMC 145 is in the planning stage of your new lift or modernisation is the compact structural shape of the machine. Only the length is the differentiating factor the width and height remains the same throughout the range.

Flexibility
With our gearless machine we can offer the respectively matched frequency drive, in which all necessary drive parameters and motor maps are provided. This ensures the installation and set-up time in minimised. Optional plug and play versions are available which includes the main contactors.

Complete
Brake release lever and handwinding option provides a flexible solution for installation with or without machine rooms. This can eliminate having to provide a UPS.

Smooth
Our traction sheave are manufactured with hardened seated grooves, precisely balanced to deliver extremely smooth ride quality with low vibration and a guaranteed long working life.

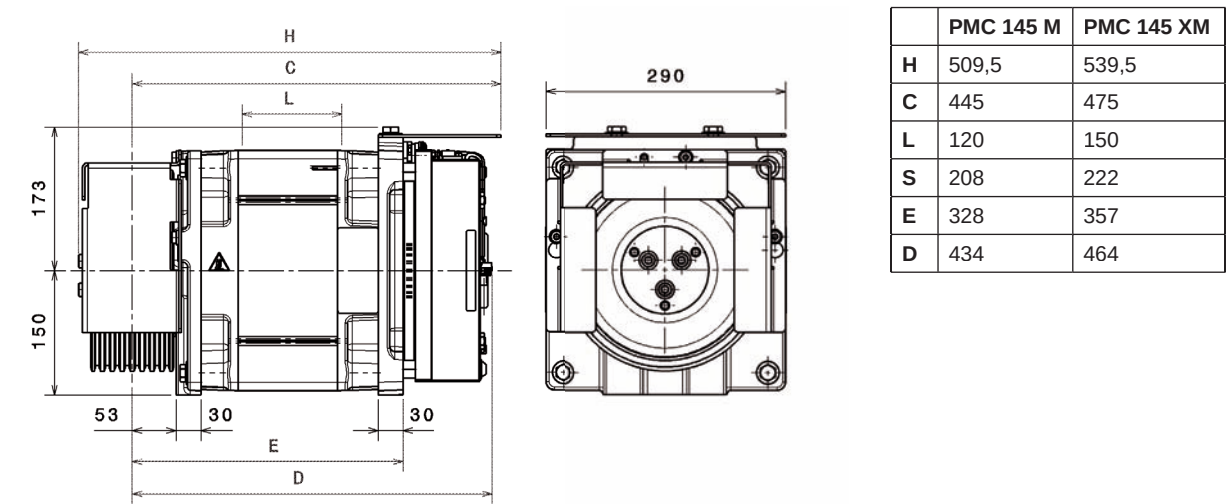


	PMC 145 S	PMC 145 XS
H	470,5	500,5
C	409,5	439,5
L	90	120
S	185	198
E	291,5	321,5
D	397	427

Technical Data				
Type of machine		PMC S 103		PMC XS 106
Suspension	r	1:1		2:1
Rated Load	Q [kg]	275		450
Rated Speed max.	v [m/s]	1,0		1,6
Diameter of Traction Sheave	DT [mm]	240		
Diameter of Ropes *	d [mm]	6		
Number of Grooves max.	z	7		
Type of Groove		seat groove		
Rated Power	PN [kW]	1,59	2,8	4,4
Rated Torque	MN [Nm]	190	170	165
permitted radial Shaft Load	[kN]	23		23
Weight	[kg]	154		174
Number of Switching Operations		120		
Duty Cycle	%	50		
Rated Current	IN [A]	7,8	7	9,3
Output Factor	cos φ	0,90	0,94	0,97
Version of Brake		2-surface disc brake		
Brake Monitoring		Release monitoring (microswitch) per brake circuit		
Protection Class		IP 21		

* we advise following ropes:
Wolf-ropes: 6 mm, 819 W - IWRC MK
Drako-ropes: 6 mm, DRAKO 6 x 19 W

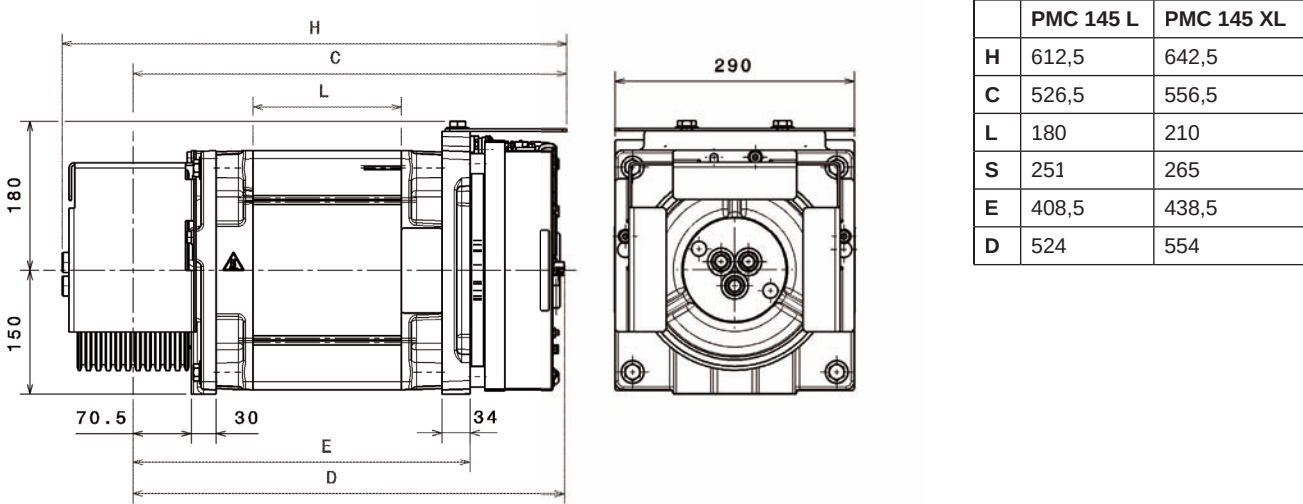
PMC 145 M/XM



Technical Data						
Type of Machine		PMC M 102			PMC XM 105	
Suspension	r	1:1		2:1		
Rated Load	Q [kg]	400		630		
Rated Speed max.	v [m/s]	1,0	1,2	1,0	1,6	1,75
Diameter of Traction Sheave	DT [mm]	240				
Diameter of Ropes *	d [mm]	6				
Number of Grooves max.	z	9				
Type of Groove		seat groove				
Rated Power	PN [kW]	2,38	2,86	3,91	6	6,9
Rated Torque	MN [Nm]	285	285	235	225	236
permitted radial Shaft Load	[kN]	29			29	
Weight	[kg]	185			205	
Number of Switching Operations		180				
Duty Cycle	%	40		50		
Rated Current	IN [A]	11,7	11,7	9,4	14,5	15
Output Factor	cos φ	0,89	0,89	0,92	0,97	0,97
Version of Brake		2-surface disc brake				
Brake Monitoring		Release monitoring (microswitch) per brake circuit				
Protection Class		IP 21				

* we advise following ropes:
Wolf-ropes: 6 mm, 819 W - IWRC MK
Drako-ropes: 6 mm, DRAKO 6 x 19 W

PMC 145 L/XL



Technical Data					
Type of Machine		PMC L 101			PMC XL 104
Suspension	r	1:1		2:1	
Rated Load	Q [kg]	630		1000	
Rated Speed max.	v [m/s]	1,0	1,2	1,0	1,6
Diameter of Traction Sheave	DT [mm]	240			
Diameter of Ropes *	d [mm]	6			
Number of Grooves max.	z	13			
Type of Groove		seat groove			
Rated Power	PN [kW]	3,69	4,42	6	9,4
Rated Torque	MN [Nm]	285	285	235	225
permitted radial Shaft Load	[kN]	35,5		34,5	
Weight	[kg]	242		263	
Number of Switching Operations		180			
Duty Cycle	%	40		50	
Rated Current	IN [A]	17,6	17,6	14,3	22,8
Output Factor	cos φ	0,93	0,93	0,93	0,96
Version of Brake		2-surface disc brake			
Brake Monitoring		Release monitoring (microswitch) per brake circuit			
Protection Class		IP 21			

* we advise following ropes:
Wolf-ropes: 6 mm, 819 W - IWRC MK
Drako-ropes: 6 mm, DRAKO 6 x 19 W



Drives which always KEEP OUR PROMISES

Maintenance free

Through their elaborated construction, our DAF series needs only a low quantity of mechanical parts. This has a most positive impact on the working life and the maintenance.

Safety

At LiftEquip dual circuit safety brakes are fitted as standard to our Gearless machines. Our brakes are certified for uncontrolled up-ward movement to EN81-1/9.10

Flexibility

With our gearless machine we can offer the respectively matched frequency drive, in which all necessary drive parameters and motor maps are provided. This ensures the installation and set-up time in minimised. Optional plug and play versions are available which includes the main contactors.

Complete

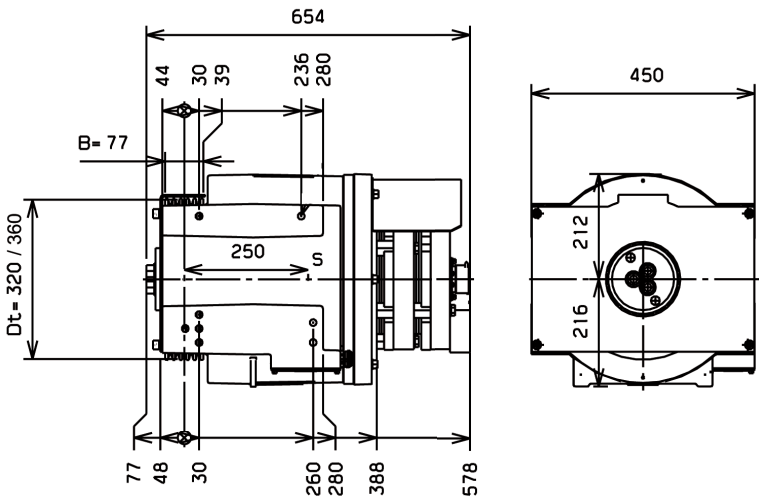
Brake release lever and handwinding option provides a flexible solution for installation with or without machine rooms. This can eliminate having to provide a UPS.

Component set

You can use our component sets for machine-room-less installations. These are especially matching to our DAF series and cover the complete range of performance.

Smooth

Our traction sheave are manufactured with hardened seated grooves, precisely balanced to deliver extremely smooth ride quality with low vibration and a guaranteed long working life.

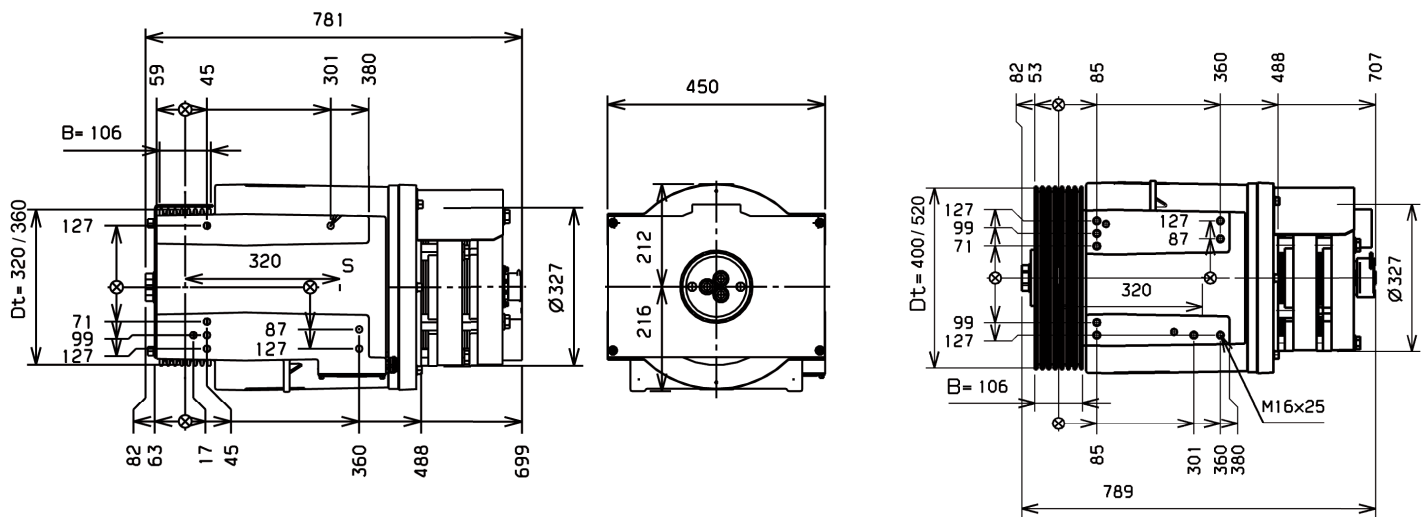


Technical Data							
Type of Machine		DAF 210 M					
Suspension	r	1:1		2:1			
Rated Load	Q [kg]	450		630			
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0
Diameter of Traction Sheave	DT [mm]	320		360			
Diameter of Ropes	d [mm]	8		8-9			
Number of Grooves max.	z	5		4-5			
Type of Groove		seat / vee groove					
Rated Power	PN [kW]	2,83	4,3	4,2	6,8	7,2	8,0
Rated Torque	MN [Nm]	450	430	378	382	370	360
permitted radial Shaft Load	[kN]	37					
Weight	[kg]	250					
Number of Switching Operations		240	180	240			
Duty Cycle	%	50	60	50			
Rated Current	IN [A]	8,2	12,0	10,5	16,2	15,4	17,2
Output Factor	cos φ	0,94	0,94	0,95	0,95	0,95	0,95
Version of Brake		2-surface disc brake					
Brake Monitoring		Release monitoring (microswitch) per brake circuit					
Protection Class		IP 54					

DAF 210 L



DAF 210 L

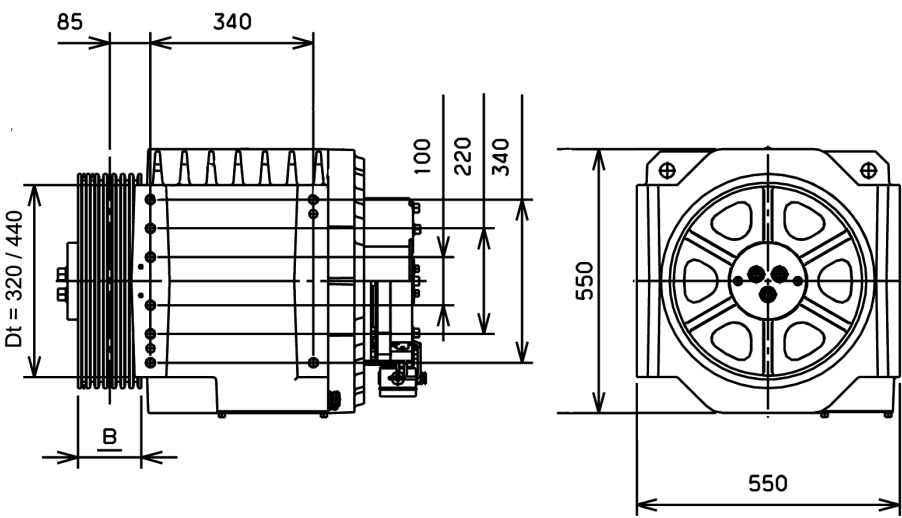


Technical Data							
Type of Machine		DAF 210 L					
Suspension	r	1:1		2:1			
Rated Load	Q [kg]	630		630/900/1000	630/900/1000	1000	
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0
Diameter of Traction Sheave	DT [mm]	320		520/400/360	520/400/360	360	
Diameter of Ropes	d [mm]	8		8-13			
Number of Grooves max.	z	7		5-8			
Type of Groove		seat / vee groove					
Rated Power	PN [kW]	4,10	5,75	4,7/5,9/6,6	7,4/9,5/10,5	11,3	12,5
Rated Torque	MN [Nm]	650	575	610/590/586	600/595/590	580	563
permitted radial Shaft Load	[kN]	for traction sheave Ø 320, Ø 360 and Ø 400 → 46 kN, for traction sheave Ø 520 → 41kN					
Weight	[kg]	320/325/330					
Number of Switching Operations		240					
Duty Cycle	%	50					
Rated Current	IN [A]	10,5	14,0	15,4/15,0/15,2	23,4/23,2/23,0	25,7	25,0
Output Factor	cos φ	0,94	0,95	0,96/0,94/0,95	0,96/0,95/0,95	0,95	0,96
Version of Brake		2-surface disc brake					
Brake Monitoring		Release monitoring (microswitch) per brake circuit					
Protection Class		IP 54					

DAF 270 M



DAF 270 M

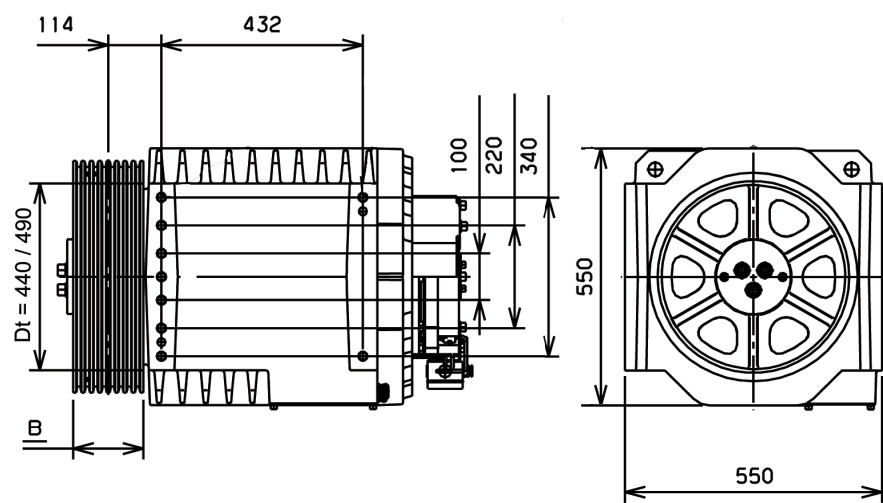


Technical Data								
Type of Machine		DAF 270 M						
Suspension	r	1:1		2:1				
Rated Load	Q [kg]	800/1000	800/1000	1600/2000	1600			1350
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0	2,5
Diameter of Traction Sheave	DT [mm]	440/320	440/320	440	440	440	440	440
Diameter of Ropes	d [mm]	8-10						
Number of Grooves max.	z	7-10						
Type of Groove		seat vee groove						
Rated Power	PN [kW]	5,4/7,4	7,8/10,6	10,7/11,4	15,3/14,9	16,3	18,2	19,5
Rated Torque	MN [Nm]	1200/1175	1075/1050	1175/1250	1050/1025	1025	1000	860
permitted radial Shaft Load	[kN]	for traction sheave Ø 320 → 43,5 kN, for traction sheave Ø 440 → 58 kN						
Weight	[kg]	550/570						
Number of Switching Operations		240						
Duty Cycle	%	60						
Rated Current	IN [A]	24,5/24	22/30	24/25,5	30/35	35	38	41,5
Output Factor	cos φ	0,94/0,94	0,93/0,95	0,94/0,94	0,95/0,94	0,95	0,96	0,95
Version of Brake		2-surface disc brake 2x1250 / 2x1700						
Brake Monitoring		Release monitoring (microswitch) per brake circuit						
Protection Class		IP21						

DAF 270 L



DAF 270 L

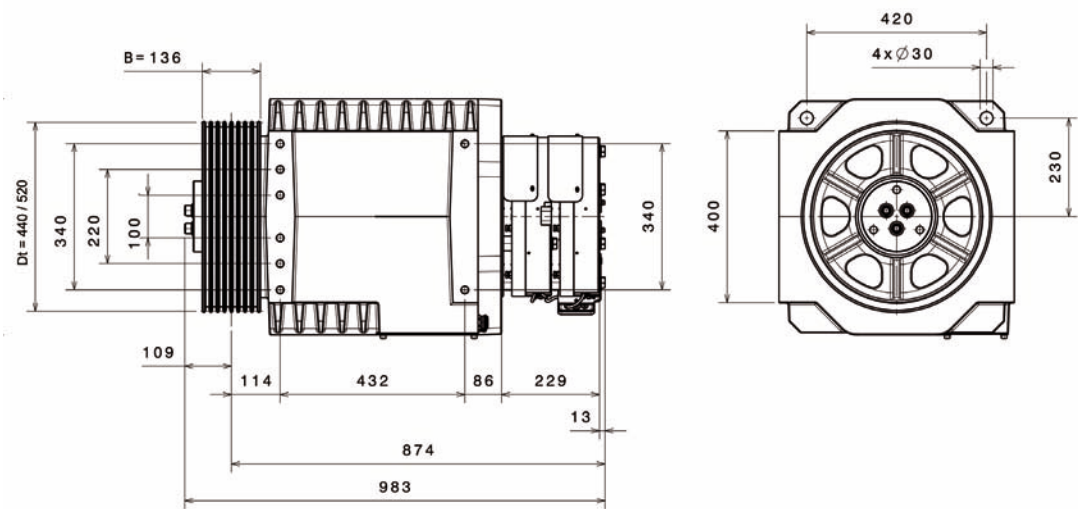


Technical Data				
Type of Machine	DAF 270 L			
Suspension	r	2:1		3:1
Rated Load	Q [kg]	2250	1800	3000
Rated Speed max.	v [m/s]	1,0/1,6	2,5	1,0/1,6
Diameter of Traction Sheave	DT [mm]	440	490	
Diameter of Ropes	d [mm]	8-13		
Number of Grooves max.	z	6-10		
Type of Groove		seat / vee groove		
Rated Power	PN [kW]	12.8/20.4	26,5	17/27
Rated Torque	MN [Nm]	1400/1400	1300	1385/138
permitted radial Shaft Load	[kN]	58		
Weight	[kg]	730/740		
Number of Switching Operations		240		
Duty Cycle	%	60		
Rated Current	IN [A]	36/43,5/36	58/40	35/56
Output Factor	cos φ	0,96/0,95	0,96	0,96/0,97
Version of Brake		2-surface disc brake 2x1700		
Brake Monitoring		Release monitoring (microswitch) per brake circuit		
Protection Class		IP21		

DAF 270 XL



DAF 270 XL



Technical Data					
Type of Machine	DAF 270 XL				
Suspension	r	1:1	2:1	4:1	
Rated Load	Q [kg]	1100/1000	2000/1800	2500	5000
Rated Speed max.	v [m/s]	1,0/1,6	1,0/1,6	1,0	0,5
Diameter of Traction Sheave	DT [mm]	440	520	440	440
Diameter of Ropes	d [mm]	8			
Number of Grooves max.	z	6-9			
Type of Groove		seat / vee groove			
Rated Power	PN [kW]	6.6/10.1	12,2/17,3	14,6	14,6
Rated Torque	MN [Nm]	1475	1600/1400	1600	1600
permitted radial Shaft Load	[kN]	73			
Weight	[kg]	ca. 780			
Number of Switching Operations		240			
Duty Cycle	%	60			
Rated Current	IN [A]	26/24,5	28/35	41/28	41/28
Output Factor	cos φ	0,96/0,96	0,95/0,96	0,95	0,95
Version of Brake		2-surface disc brake 2x2200			
Brake Monitoring		Release monitoring (microswitch) per brake circuit			
Protection Class		IP21			

Version 08/2010

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