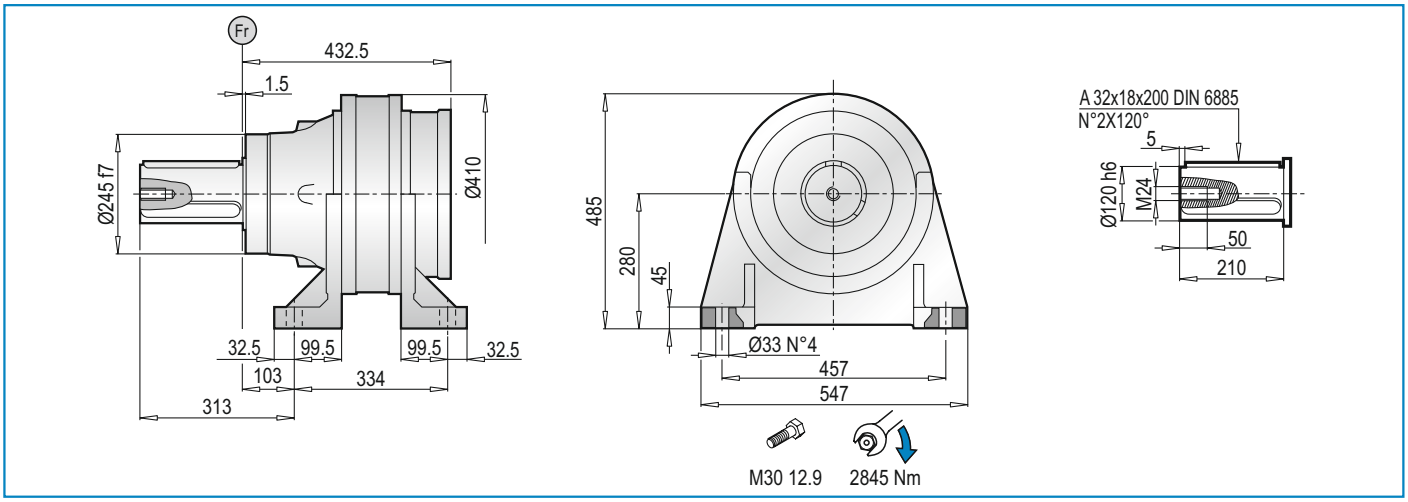
Planetary Gear Units PL/PLB Series

Technic Selection	
Type	PL
Input Option	Without Motor
Assembly Shaft Design	CPC (WITH KEY, SOLID SHAFT)
Body Size	35004
FA Press [N]	100000
FA Pull [N]	80000
FR [N]	108000
Frequency [Hz]	50
fs	1.2
iges	1289.7
Lifetime Expection	10000
M2 [Nm]	30516
M2max [Nm]	36838
Motor Efficiency	IE2
Motor Size	112/4P
n1 [rpm]	1400
n2 [rpm]	1.1
P1 [kW]	4
P1max [kW]	4.83
Pt Indoor (10°C) [kW]	9.8
Pt Outdoor (10°C) [kW]	18.7
Pt Indoor (20°C) [kW]	8.9
Pt Outdoor (20°C) [kW]	17
Pt Indoor (30°C) [kW]	7.2
Pt Outdoor (30°C) [kW]	13.6
Pt Indoor (40°C) [kW]	6.3
Pt Outdoor (40°C) [kW]	11.9
Pt Indoor (50°C) [kW]	5.4
Pt Outdoor (50°C) [kW]	10.2

Variation	
Input Connection Type	IEC
Input Backstop Status	Without Backstop
Mounting Position	B3
Input Connection Size	IEC-112-A
Output Shaft Diameter	ØDxL=Ø120h6x210[mm]

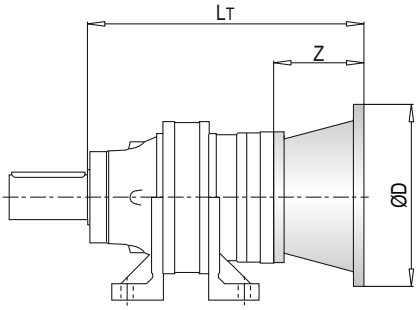
Option	
Oil Status	Exist
Oil Type	Synthetic ISO VG 320
Vent Plug	Standard
Oil Indicator Plug	None
Product Label	Standard
Color	RAL 7000
Montage Position Status	Standard
Amount Of Oil [Liter]	7,90
Case Material	GGG-50
Output Oil Seal Type	NBR
Output Bearing Quality	Standard



PL 35000 CPC - Anbauvorrichtung Für Elektromotore (IEC) / Electric Motor Couplings (IEC) / Predisposizioni Per Motori Elettrici (IEC) / Adaptations Pour Moteurs Electriques (IEC) / Acoplamientos Para Motores Eléctricos (IEC)

PL	IEC 63			IEC 71			IEC 80			IEC 90			IEC 100			IEC 112		
	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD
35001	-			-			-			-			-			-		
35002	-			-			-			-			-			-		
35003	627	36	140	627	36	160	647	56	200	647	56	200	657	66	250	657	66	250
35004	688			688			708			708			718			718		

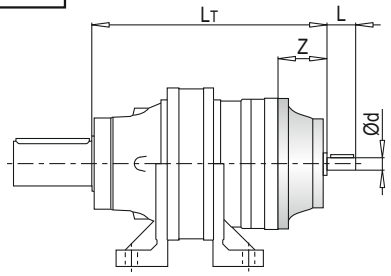
PL	IEC 132			IEC 160			IEC 180			IEC 200			IEC 225			IEC 250		
	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD	LT	Z	ØD
35001	-			582.5	150		582.5	150		582.5	150		571.5	139	450	571.5	139	550
35002	-			637.5	118	350	637.5	118	350	667.5	148	400	-			-		
35003	691	100	300	730	139		730	139		-			-			-		
35004	752			791			791			-			-			-		



PL	IEC ~ Kg											
	63	71	80	90	100	112	132	160	180	200	225	250
35001	-	-	-	-	-	-	-	301	301	306	293	324
35002	-	-	-	-	-	-	-	330	330	340	-	-
35003	329	329	331	331	332	332	336	346	346	-	-	-
35004	337	337	339	339	340	340	344	354	354	-	-	-

PL 35000 CPC - Antriebswellen / Input Shafts / Alberi Entrata / Arbres D'entree / Ejes De Entrada

PL	EL C 28				EL C 42				EML 42				EML 1"3/8 Z6				EM 65				EM 1"3/8 Z6			
	LT	Z	L	Ød	LT	Z	L	Ød	LT	Z	L	Ød	LT	Z	L	Ød	LT	Z	L	Ød	LT	Z	L	Ød
35002	-				-				-				-				641	121.5	105	65	641	121.5	105	1"3/8
35003	655	64	50	28	655	64	82	42	685	94	82	42	685	94	106	1"3/8	712.5				712.5			
35004	716				716				746				746				-				-			



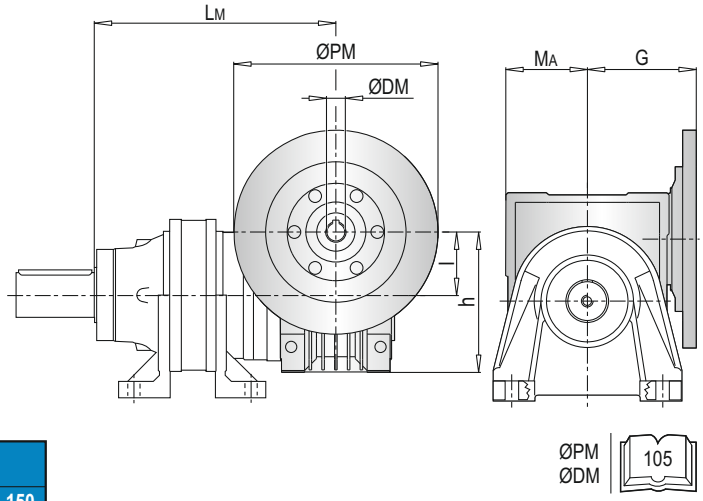
PL	EP 65				ET 90			
	LT	Z	L	Ød	LT	Z	L	Ød
35002	672.5	153	105	65	691	171.5	170	90
35003	744				-			
35004	-				-			

PL	~ Kg							
	EL C 28	EL C 42	EML 42	EML 1"3/8 Z6	EM 65	EM 1"3/8 Z6	EP 65	ET 90
35002	-	-	-	-	325.0	325.0	334.0	304.0
35003	329.5	330.0	333.0	333.0	341.0	341.0	350.0	-
35004	337.5	338.0	341.0	341.0	-	-	-	-

PL 35000 CPC - Anschluss Für Schneckengetriebe (PMRV/PRV) / Worm Gearbox Adaptors (PMRV/PRV) / Predisposizioni Per Riduttori A Vite Senza Fine (PMRV/PRV) / Adaptation Pour Reducteurs A Vis Sans Fin (PMRV/PRV) / Acoplamiento Para Reductores De Tornillo Sin Fin (PMRV/PRV)

PL	PMRV/PRV 050					PMRV/PRV 063					PMRV/PRV 075				
	LM	l	h	MA	G	LM	l	h	MA	G	LM	l	h	MA	G
35002	-					-					-				
35003	712.5	50	110	60	80	722	63	135	72	95	701	75	161	86	112.5
35004	773.5					783					762				

PL	PMRV/PRV 090					PMRV/PRV 110					PMRV/PRV 130				
	LM	l	h	MA	G	LM	l	h	MA	G	LM	l	h	MA	G
35002	-					653.5	110	237.5	127.5	160	659	130	277.5	147.5	180
35003	711	90	193	103	129.5	725					730.5				
35004	772					-					-				



ØPM
ØDM
105

PL	PMRV/PRV 150				
	LM	l	h	MA	G
35002	675.5	150	320	170	210
35003	747				
35004	-				

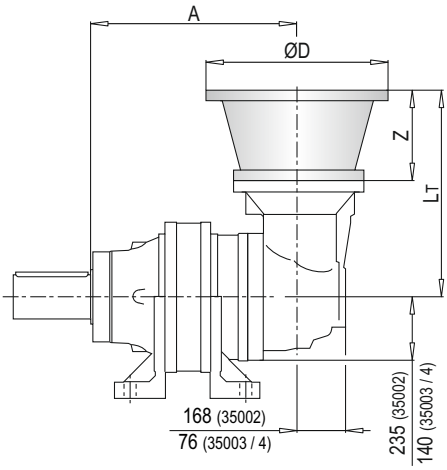
PL	PMRV/PRV ~ Kg						
	050	063	075	090	110	130	150
35002	-	-	-	-	354	371	407
35003	332	335.5	338	343	370	387	423
35004	340	363.5	346	351	-	-	-

PLB 35000 CPC - Anbauvorrichtung Für Elektromotore (IEC) / Electric Motor Couplings (IEC) / Predisposizioni Per Motori Elettrici (IEC) / Adaptations Pour Moteurs Electriques (IEC) / Acoplamientos Para Motores Eléctricos (IEC)

PLB	IEC 80				IEC 90				IEC 100				IEC 112			
	A	LT	Z	ØD	A	LT	Z	ØD	A	LT	Z	ØD	A	LT	Z	ØD
35002	-				-				-				-			
35003	-				-				-				-			
35004	692.5	296	56	200	692.5	296	56	200	692.5	306	66	250	692.5	306	66	250

PLB	IEC 132				IEC 160				IEC 180				IEC 200			
	A	LT	Z	ØD	A	LT	Z	ØD	A	LT	Z	ØD	A	LT	Z	ØD
35002	-				497.5	433	118	350	497.5	433	118	350	497.5	463	148	400
35003	-				654.5				654.5				-			
35004	692.5	340	100	300	692.5	379	139		-				-			

PLB	IEC ~ Kg							
	80	90	100	112	132	160	180	200
35002	-	-	-	-	-	372	372	400
35003	-	-	-	-	-	429	429	-
35004	371	371	372	372	376	295	-	-



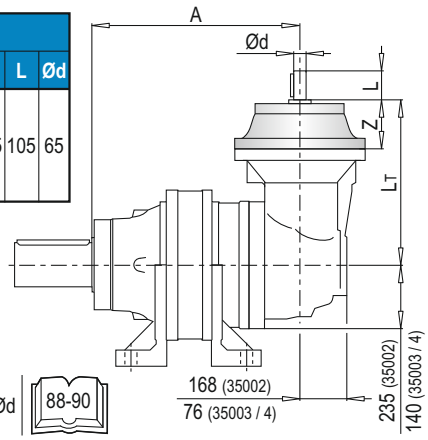
103

PLB 35000 CPC - Antriebswellen / Input Shafts / Alberi Entrata / Arbres D'entree / Ejes De Entrada

PLB	EL C 28					EL C 42					EML 42					EML 1"3/8 Z6					EM 65				
	A	LT	Z	L	Ød	A	LT	Z	L	Ød	A	LT	Z	L	Ød	A	LT	Z	L	Ød	A	LT	Z	L	Ød
35002	-					-					-					-					497.5	436.5	121.5	105	65
35003	-					-					-					-					654.5	361.5			
35004	692.5	304	64	50	28	692.5	304	64	82	42	692.5	334	94	82	42	692.5	334	94	106	1"3/8	692.5				

PLB	EM 1"3/8 Z6					EP 65				
	A	LT	Z	L	Ød	A	LT	Z	L	Ød
35002	497.5	436.5	121.5	105	1"3/8	497.5	468	153	105	65
35003	654.5	361.5				654.5	393			
35004	692.5					692.5				

PLB	~ Kg						
	EL C 28	EL C 42	EML 42	EML 1"3/8 Z6	EM 65	EM 1"3/8 Z6	EP 65
35002	-	-	-	-	367.0	367.0	398.0
35003	-	-	-	-	424.0	424.0	455.0
35004	369.5	370.0	373.0	373.0	381.0	381.0	412.0



Ød
88-90

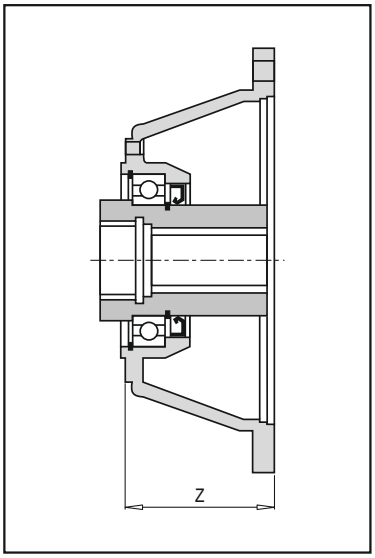
DE ANBAUVORRICHTUNG FÜR ELEKTROMOTORE

EN ELECTRIC MOTOR COUPLINGS

IT PREDISPOSIZIONI PER MOTORI ELETTRICI

FR ADAPTATIONS POUR MOTEURS ELECTRIQUES

ES ACOPLAMIENTOS PARA MOTORES ELÉCTRICOS



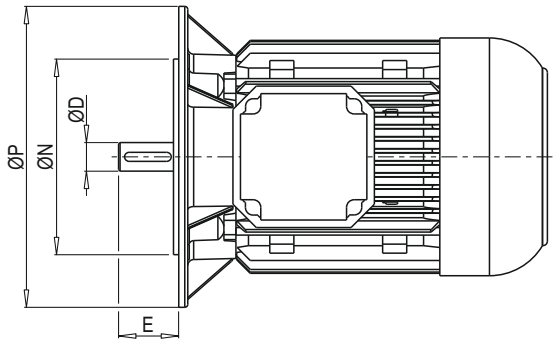
UNEL/IEC B5

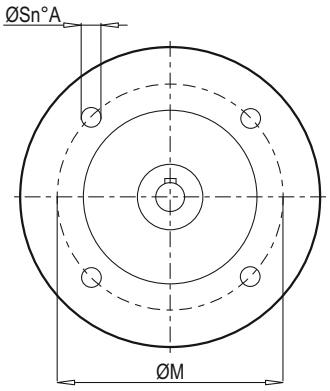
	Z	Bestell Nr. / Code / Codice Code / Código	
H63	36	2074.011.005	A
H71	36	2074.011.006	
H80	56	2074.011.001	
H90	56	2074.011.002	
H100/112	66	2074.011.003	
H132	100	2074.011.004	
H160	139	2074.011.047	
H180	139	2074.011.048	
H160	118	2074.051.001	B
H180	118	2074.051.002	
H200	148	2074.051.015	
H225	139	2074.051.016	
H250	148.5	2074.051.024	
H280	148.5	2074.051.025	
H160	150	2074.071.001	C
H180	150	2074.071.002	
H200	150	2074.071.003	
H225	139	2074.071.004	
H250	139	2074.071.005	
H280	139	2074.071.006	
H160	150	2074.081.001	D
H180	150	2074.081.002	
H200	150	2074.081.003	
H225	139	2074.081.004	
H250	139	2074.081.005	
H280	139	2074.081.006	

NEMA C

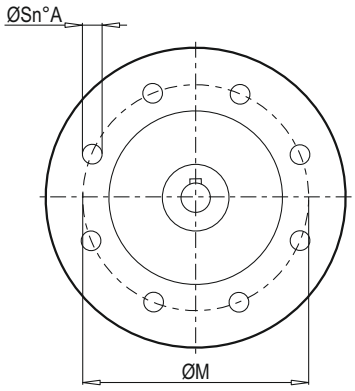
	Z	Bestell Nr. / Code / Codice Code / Código	
143TC-145TC 182TC-184TC	80	2074.011.008	A
182TC-184TC 213TC-215TC	88.5	2074.011.009	
213TC-215TC	88.5	2074.011.010	
286TC	139	2074.051.006	B
326TC	149	2074.051.007	
365TS	149	2074.051.010	

Dass Mass Z wird in den entsprechenden Tabellen auf der festgestellt.
Z dimensions have to be verified in the tables
Le dimensioni Z riportate vanno verificate con le tabelle.
Les dimensions de Z sont à verifier dans les tableaux.
Las dimensiones Z indicadas tienen que verificarse con la tabla.





63...200



225...280

	Anzahl Pole - Number of poles - N° poli - Numero poles - N° de polos									ØD	E	ØP	ØM	ØN	ØS	A
	2			4			6									
	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]							
63	0.18		0.25	0.12		0.18	0.06		0.09	11	23	140	115	95	9.5	4
71	0.37		0.55	0.25		0.37	0.18		0.25	14	30	160	130	110	9.5	4
80	0.75		1.1	0.55		0.75	0.37		0.55	19	40	200	165	130	11.5	4
90	1.5		2.2	1.1		1.5	0.75		1.1	24	50	200	165	130	11.5	4
100/112	3		4	2.2	3	4	1.5		2.2	28	60	250	215	180	14	4
132	5.5		7.5	5.5		7.5	3	4	5.5	38	80	300	265	230	14	4
160	11	15	18.5	11		15	7.5		11	42	110	350	300	250	18	4
180	22			18.5		22	15			48	110	350	300	250	18	4
200	30		37	30			18.5		22	55	110	400	350	300	18	4
225	45			37		45	30			60 (55-2p)	140	450	400	350	18	8
250	55			55			37			65 (60-2p)	140	550	500	450	18	8
280	75		90	75		90	45		55	75 (65-2p)	140	550	500	450	18	8

DE RADIALLAST (Fr)

In den nachstehenden Diagrammen ist die Radiallast un der Koeffizient K dargestellt und kann mit dem gewünschten Wert $n_2$xh verglichen werden.

EN RADIAL LOADS (Fr)

The following curves show the radial loads and the K factors to obtain the required n2xh value.

IT CARICHI RADIALI (Fr)

Nei diagrammi seguenti sono riportati i carichi radiali e i coefficienti K per rapportarli al valore $n_2$xh desiderato.

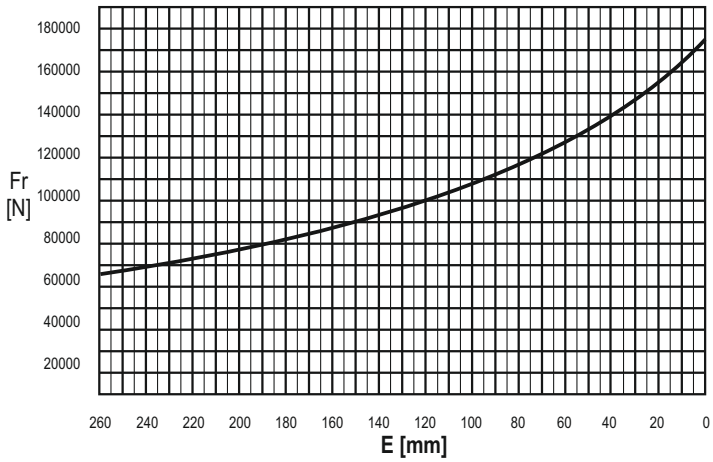
FR CHARGES RADIALES (Fr)

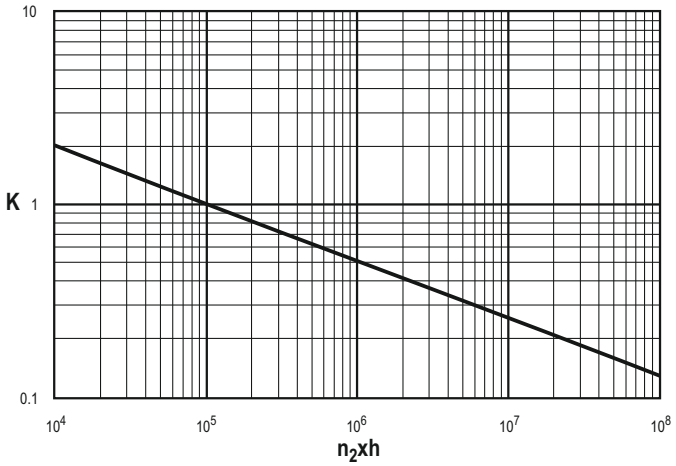
Dans les diagrammes suivants sont indiqués les charges radiales et les facteurs K de façon à obtenir la valeur $n_2$xh désirée.

ES CARGAS RADIALES (Fr)

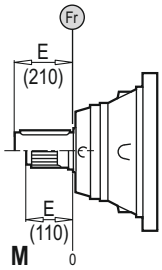
En los siguientes diagramas se indican las cargas radiales y los coefici - entes K para obtener el valor requerido $n_2$xh.

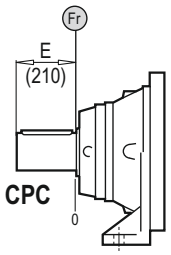
M - CPC*





	n x h				
	10^5	10^4	10^6	10^7	10^8
M	Fr	Fr • K			
CPC*	Fr • 0.75	Fr • K • 0.75			





DE AXIALLAST (Fa)

Die dargestellten Werte der Axiallast basieren auf der Version und der applizierten Lastrichtung.

EN AXIAL LOADS (Fa)

The values of the axial loads in the table refer to the output versions and load direction of application.

IT CARICHI ASSIALI (Fa)

I valori dei carichi assiali indicati in tabella sono riferiti alle versioni e alla direzione di applicazione del carico.

FR CHARGES AXIALES (Fa)

Les valeurs des charges axiales indiquées dans le tableau se réfèrent aux versions et à la direction d'application de lacharge.

ES CARGAS AXIALES (Fa)

Los valores de las cargas axiales indicados en la tabla se refieren a las versiones y a la dirección de aplicación de la carga.

Fa [N]	M	CPC	
	80000	80000	←
	100000	100000	→