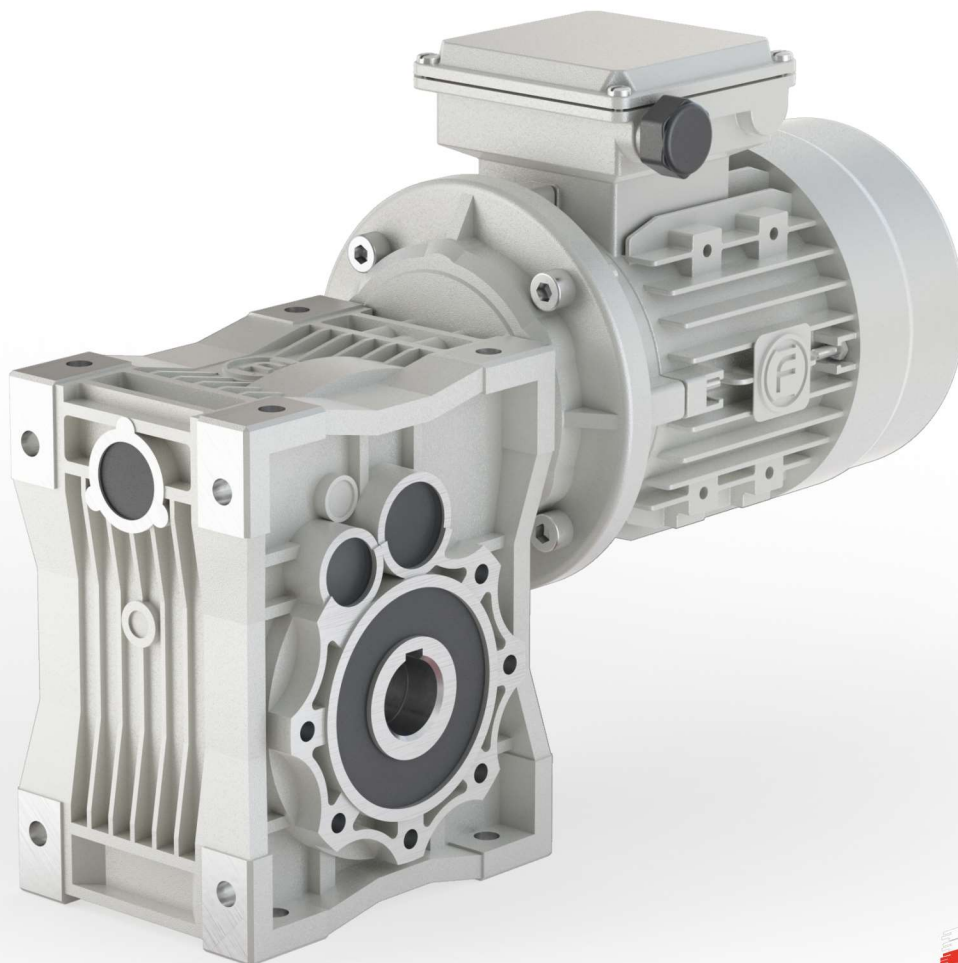


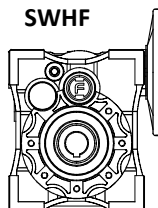


Przekładnie walcowo-ślimakowe **SWHF**
*Helical-worm gearmotors **SWHF***



Oznaczenie kodowe

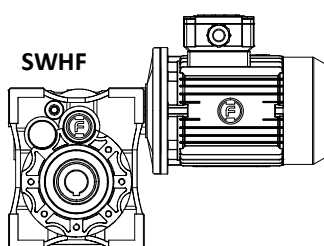
SWHF



Classification

Przekładnia walcowo-ślimakowa / Helical-worm gearbox

SWHF	063	i250	FA1	P63B5	M1
Typ / Type	Wielkość / Size		Przełożenie Ratio		Element wyjściowy Output element
SWHF	063 075 090 110	80 100 125 150 200 250 300 400 600 800 1000 1200 1600 2000 2400 3200 4000	Zgodnie z doбором See tables		Kołnierz wejściowy Input flange Pozycja montażowa Mounting positions



Motoreduktor walcowo-ślimakowy / Helical-worm gearmotors

SWHF	040	i250	FA1	P63B5	M1	0.09	6
Typ / Type	Wielkość Size		Przełożenie Ratio		Element wyjściowy Output element	Moc silnika Motor power	Pola Poles
SWHF	063 075 090 110	80 100 125 150 200 250 300 400 600 800 1000 1200 1600 2000 2400 3200 4000	Zgodnie z doбором See tables		Kołnierz wejściowy Input flange	Pozycja montażowa Mounting positions	[kW] 2 4 6

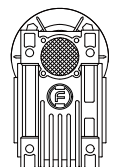
Określ pozycję puszeki przyłączeniowej silnika
Terminal box position is required



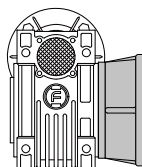
Element wyjściowy

Output element

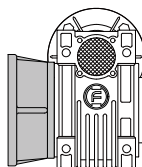
Kołnierz wyjściowy / Output flange



Brak oznaczenia
No mark

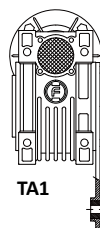


FA1 FB1
FC1 FD1
FE1

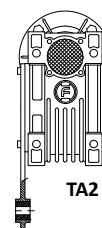


FA2 FB2
FC2 FD2
FE2

Ramię reakcyjne / Torque arm



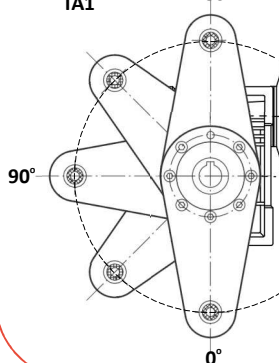
TA1



TA2

Kąt / Angle
TA1

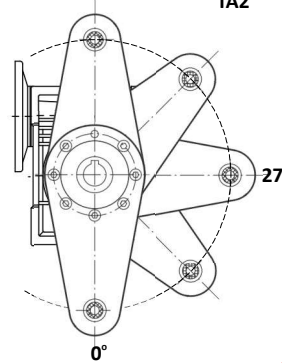
180°



0°

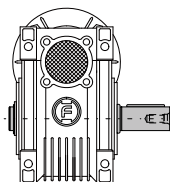
Kąt / Angle
TA2

180°

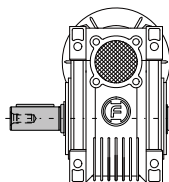


0°

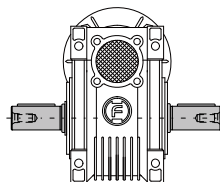
Wał wyjściowy / Output shaft



SS1



SS2



DD



Pozycje montażowe

Mounting positions

M6
(B6)

M1
(B3)

M2
(V6)

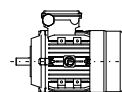
M4
(V5)

M5
(B7)

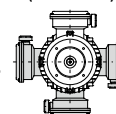
M3
(B8)

Pozycja puszki przyłączeniowej silnika
Terminal box position

TU1
(standard)



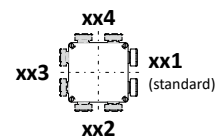
TL1



TR1

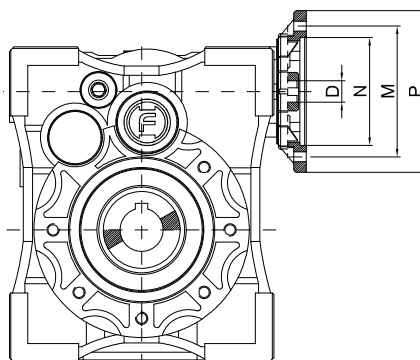
TD1

Pozycja dławików puszk
Chokes position



Wymiary kołnierza wejściowego IEC

IEC motor adapters

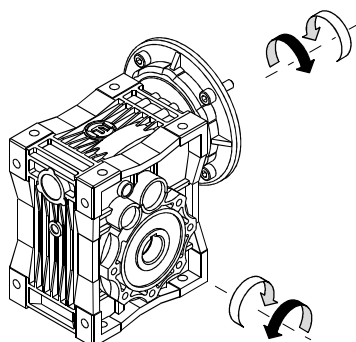


Wymiary kołnierza wejściowego IEC / IEC motor adapters

IEC	P56B14	P56B5	P63B5	P63B14	P71B5	P71B14	P80B5	P80B14	P90B5	P90B14
D_{ES} [mm]	9	9	11	11	14	14	19	19	24	24
P [mm]	80	120	140	90	160	105	200	120	200	140
M [mm]	65	100	115	75	130	85	165	100	165	115
N [mm]	50	80	95	60	110	70	130	80	130	95

Kierunki obrotu

Direction of rotation





Dopuszczalne konfiguracje

Acceptable configurations

SWHF 063... M_n 200 Nm				
i =	P56B5	P56B14	P63B5	P63B14
2400				
2000				
1600				
1200				
1000				
800				
600				
400				
300				
250				
200				
150				
125				
100				
80				

SWHF 075... M_n 299 Nm				
i =	P56B5	P63B5 P63B14	P71B5	P71B14
3200				
2400				
2000				
1600				
1200				
1000				
800				
600				
400				
300				
250				
200				
150				
125				
100				
80				

SWHF 090... M_n 416 Nm				
i =	P63B5	P71B5 P71B14	P80B5	P80B14
4000				
3200				
2400				
2000				
1600				
1200				
1000				
800				
600				
400				
300				
250				
200				
150				
125				
100				
80				

SWHF 110... M_n 915 Nm				
i =	P71B5 P71B14	P80B5 P80B14	P90B5	P90B14
4000				
3200				
2400				
2000				
1600				
1200				
1000				
800				
600				
400				
300				
250				
200				
150				
125				
100				
80				

Tabela z danymi technicznymi

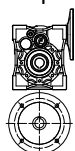
Poniżej znajduje się przykładowy wygląd i opis tabeli z danymi technicznymi przekładni walcowo-ślimakowych SWHF.

Technical data table

The following is an example of the design and description of the table with the SWHF gear unit technical data.

P_1 [kW]	n_1 [rpm]	M_2 [Nm]	f_s	i =		
0.12						
$n_1=1400$ [rpm]	17.5 14.0 11.2	53.0 82.0 100	1.60 1.50 1.40	80 100 125	SWHF 075	P63B5 P63B14

P_1 - moc silnika elektrycznego [kW]
 n_1 - obroty wejściowe [rpm]
 n_2 - obroty wyjściowe [rpm]
 M_2 - wyjściowy moment obrotowy [Nm]
 f_s - współczynnik pracy
 i = - przełożenie

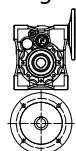


- typ przekładni (zobacz oznaczenie kodowe)



- typ kołnierza wejściowego IEC (pod silnik)

P_1 - rated power driving motor [kW]
 n_1 - input speed [rpm]
 n_2 - output speed [rpm]
 M_2 - rated output torque [Nm]
 f_s - service factor
 i = - gear unit ratio



- gear unit type (see classification)



- input flange IEC (for AC motor)



Dane techniczne

Technical data

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
0.06						4p
n ₁ =1400 [rpm]	9.3	49	2.30	150	SWHF 063	P56B5 P56B14
	7.0	65	1.70	200		
	5.6	82	1.40	250		
	4.7	98	1.10	300		
	3.5	128	0.89	400		
	2.3	184	0.62	600		
	1.8	232	0.49	800		
	1.4	270	0.42	1000		
	1.2	309	0.37	1200		
	0.9	491	0.23	1600		
	0.7	417	0.27	2000		
	0.6	501	0.23	2400		

0.09						4p
n ₁ =1400 [rpm]	17.5	39	2.90	80	SWHF 063	P56B5 P56B14
	14.0	49	2.30	100		
	11.2	61	1.80	125		
	9.3	74	1.50	150		
	7.0	98	1.10	200		
	5.6	123	0.93	250		
	4.7	147	0.78	300		
	3.5	192	0.60	400		
	2.3	276	0.41	600		
	1.8	349	0.33	800		
	1.4	405	0.28	1000		
	1.2	464	0.25	1200		
	0.9	737	0.16	1600		
	0.7	626	0.18	2000		
	0.6	751	0.15	2400		

0.09						4p
n ₁ =1400 [rpm]	14.0	49	3.40	100	SWHF 075	P56B5 P56B14
	11.2	61	2.70	125		
	9.3	74	2.30	150		
	7.0	98	1.70	200		
	5.6	123	1.30	250		
	4.7	147	1.10	300		
	3.5	189	0.90	400		
	2.3	269	0.64	600		
	1.8	339	0.50	800		
	1.4	393	0.43	1000		
	1.2	449	0.38	1200		
	0.9	717	0.24	1600		
	0.7	589	0.29	2000		
	0.6	707	0.24	2400		
	0.4	825	0.21	3200		

0.12						4p
n ₁ =1400 [rpm]	17.5	52	2.10	80	SWHF 063	P63B5 P63B14
	14.0	65	1.70	100		
	11.2	82	1.40	125		
	9.3	98	1.10	150		
	7.0	131	0.87	200		
	5.6	164	0.70	250		
	4.7	196	0.58	300		

0.12						4p
n ₁ =1400 [rpm]	17.5	52	3.20	80	SWHF 075	P63B5 P63B14
	14.0	65	2.60	100		
	11.2	82	2.00	125		
	9.3	98	1.70	150		
	7.0	131	1.30	200		
	5.6	164	1.00	250		
	4.7	196	0.87	300		

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
0.12						4p
n ₁ =1400 [rpm]	11.2	84	2.80	125	SWHF 090	P63B5
	9.3	101	2.30	150		
	7.0	134	1.70	200		
	5.6	168	1.40	250		
	4.7	201	1.10	300		
	3.5	265	0.90	400		
	2.3	378	0.63	600		
	1.8	485	0.49	800		
	1.4	581	0.41	1000		
	1.2	648	0.37	1200		
	0.9	1008	0.24	1600		
	0.7	884	0.27	2000		
	0.6	1061	0.22	2400		
	0.4	1284	0.19	3200		
	0.3	1473	0.16	4000		

0.18						2p
n ₁ =2800 [rpm]	35.0	39	2.90	80	SWHF 063	P63B5 P63B14
	28.0	49	2.30	100		
	22.4	61	1.80	125		
	18.7	74	1.50	150		
	14.0	98	1.10	200		
	11.2	123	0.93	250		
	9.3	147	0.78	300		

0.18						4p
n ₁ =1400 [rpm]	17.5	79	1.40	80	SWHF 063	P63B5 P63B14
	14.0	98	1.10	100		
	11.2	123	0.93	125		
	9.3	147	0.78	150		
	7.0	196	0.58	200		
	5.6	246	0.47	250		

0.18						2p
n ₁ =2800 [rpm]	35.0	39	4.30	80	SWHF 075	P63B5 P63B14
	28.0	49	3.40	100		
	22.4	61	2.70	125		
	18.7	74	2.30	150		
	14.0	98	1.70	200		
	11.2	123	1.30	250		
	9.3	147	1.10	300		

0.18						4p
n ₁ =1400 [rpm]	17.5	79	2.10	80	SWHF 075	P63B5 P63B14
	14.0	98	1.70	100		
	11.2	123	1.30	125		
	9.3	147	1.10	150		
	7.0	196	0.87	200		
	5.6	246	0.70	250		
	4.7	295	0.58	300		

0.18						6p
n ₁ =900 [rpm]	11.3	122	1.40	80	SWHF 075	P71B5 P71B14
	9.0	153	1.10	100		
	7.2	191	0.89	125		
	6.0	229	0.75	150		
	4.5	306	0.56	200		
	3.6	382	0.45	250		



Dane techniczne

Technical data

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
------------------------	-------------------------	------------------------	----------------	-----	--	--

0.18 2p

n ₁ =2800 [rpm]	14.0 11.2 9.3	101 126 151	2.30 1.80 1.50	200 250 300	SWHF 090	P63B5
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0.18 4p

n ₁ =1400 [rpm]	17.5 14.0 11.2 9.3 7.0 5.6 4.7	81 101 126 151 201 252 302	2.90 2.30 1.80 1.50 1.10 0.94 0.79	80 100 125 150 200 250 300	SWHF 090	P71B5 P71B14
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0.18 6p

n ₁ =900 [rpm]	11.3 9.0 7.2 6.0 4.5 3.6 3.0	125 157 196 235 313 392 470	1.90 1.50 1.20 1.00 0.76 0.61 0.51	80 100 125 150 200 250 300	SWHF 090	P71B5 P71B14
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0.18 6p

n ₁ =900 [rpm]	7.2 6.0 4.5 3.6 3.0	196 235 313 392 470	2.60 2.20 1.60 1.30 1.10	125 150 200 250 300	SWHF 110	P71B5 P71B14
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0.25 2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7 14.0 11.2 9.3	55 68 85 102 136 171 205	2.00 1.60 1.30 1.10 0.84 0.67 0.56	80 100 125 150 200 250 300	SWHF 063	P63B5 P63B14
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0.25 2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7 14.0 11.2 9.3	55 68 85 102 136 171 205	3.10 2.50 2.00 1.60 1.20 1.00 0.83	80 100 125 150 200 250 300	SWHF 075	P63B5 P63B14
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0.25 4p

n ₁ =1400 [rpm]	17.5 14.0 11.2 9.3 7.0 5.6	109 136 171 205 273 341	1.50 1.20 1.00 0.83 0.63 0.50	80 100 125 150 200 250	SWHF 075	P71B5 P71B14
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0.25 6p

n ₁ =900 [rpm]	11.3 9.0 7.2 6.0	170 212 265 318	1.00 0.81 0.64 0.54	80 100 125 150	SWHF 075	P71B5 P71B14
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P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
------------------------	-------------------------	------------------------	----------------	-----	--	--

0.25 2p

n ₁ =2800 [rpm]	22.4 18.7 14.0 11.2 9.3	91 109 145 181 217	4.50 3.80 2.80 2.30 1.90	125 150 200 250 300	SWHF 090	P63B5
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0.25 4p

n ₁ =1400 [rpm]	17.5 14.0 11.2 9.3 7.0 5.6 4.7	116 145 181 217 290 362 435	3.50 2.80 2.30 1.90 1.40 1.10 0.96	80 100 125 150 200 250 300	SWHF 090	P71B5 P71B14
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0.25 6p

n ₁ =900 [rpm]	11.3 9.0 7.2 6.0 4.5 3.6 3.0	180 225 282 338 451 564 676	2.30 1.80 1.40 1.20 0.90 0.70 0.60	80 100 125 150 200 250 300	SWHF 090	P71B5 P71B14
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0.25 4p

n ₁ =1400 [rpm]	9.3 7.0 5.6 4.7	210 280 350 420	2.40 1.80 1.50 1.20	150 200 250 300	SWHF 110	P71B5 P71B14
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0.25 6p

n ₁ =900 [rpm]	11.3 9.0 7.2 6.0 4.5 3.6 3.0	174 218 272 326 435 544 653	3.00 2.40 1.90 1.60 1.20 0.96 0.80	80 100 125 150 200 250 300	SWHF 110	P71B5 P71B14
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0.37 2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7	81 101 126 151	2.10 1.60 1.30 1.10	80 100 125 150	SWHF 075	P71B5 P71B14
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0.37 4p

n ₁ =1400 [rpm]	17.5 14.0 11.2 9.3	162 202 252 303	1.00 0.85 0.68 0.56	80 100 125 150	SWHF 075	P71B5 P71B14
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0.37 2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7 14.0 11.2 9.3	86 107 134 161 215 268 322	4.80 3.80 3.10 2.50 1.90 1.50 1.20	80 100 125 150 200 250 300	SWHF 090	P71B5 P71B14
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Dane techniczne

Technical data

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
------------------------	-------------------------	------------------------	----------------	-----	---	---

0.37 4p

n ₁ =1400 [rpm]	17.5	166	1.40	80	SWHF 090	P71B5 P71B14
	14.0	207	1.10	100		
	11.2	259	0.92	125		
	9.3	310	0.77	150		
	7.0	414	0.57	200		
	5.6	517	0.46	250		

0.37 6p

n ₁ =900 [rpm]	11.3	258	0.92	80	SWHF 090	P80B5 P80B14
	9.0	322	0.74	100		
	7.2	402	0.59	125		
	6.0	483	0.49	150		

0.37 2p

n ₁ =2800 [rpm]	18.7	155	3.30	150	SWHF 110	P71B5 P71B14
	14.0	207	2.50	200		
	11.2	259	2.00	250		
	9.3	310	1.60	300		

0.37 4p

n ₁ =1400 [rpm]	17.5	166	3.10	80	SWHF 110	P71B5 P71B14
	14.0	207	2.50	100		
	11.2	259	2.00	125		
	9.3	310	1.60	150		
	7.0	414	1.20	200		
	5.6	517	1.00	250		
	4.7	621	0.84	300		
	3.5	808	0.65	400		
	2.3	1151	0.45	600		
	1.8	1494	0.35	800		
	1.4	1792	0.29	1000		
	1.2	2029	0.26	1200		
	0.9	3069	0.17	1600		
	0.7	2726	0.19	2000		
	0.6	3271	0.16	2400		
	0.4	3958	0.13	3200		
	0.3	4745	0.11	4000		

0.37 6p

n ₁ =900 [rpm]	11.3	258	2.00	80	SWHF 110	P80B5 P80B14
	9.0	322	1.60	100		
	7.2	402	1.30	125		
	6.0	483	1.00	150		
	4.5	644	0.81	200		
	3.6	805	0.65	250		
	3.0	966	0.50	300		

0.55 2p

n ₁ =2800 [rpm]	35.0	120	1.40	80	SWHF 075	P71B5 P71B14
	28.0	150	1.10	100		
	22.4	188	0.91	125		
	18.7	225	0.76	150		
	14.0	300	0.57	200		
	11.2	375	0.46	250		
	9.3	450	0.38	300		

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
------------------------	-------------------------	------------------------	----------------	-----	---	---

0.55 2p

n ₁ =2800 [rpm]	35.0	123	1.90	80	SWHF 090	P71B5 P71B14
	28.0	154	1.50	100		
	22.4	192	1.20	125		
	18.7	231	1.00	150		
	14.0	308	0.77	200		
	11.2	385	0.62	250		

0.55 4p

n ₁ =1400 [rpm]	17.5	246	0.97	80	SWHF 090	P80B5 P80B14
	14.0	308	0.77	100		
	11.2	385	0.62	125		
	9.3	461	0.52	150		

0.55 6p

n ₁ =900 [rpm]	11.3	383	0.62	80	SWHF 090	P80B5 P80B14
	9.0	479	0.50	100		

0.55 2p

n ₁ =2800 [rpm]	28.0	154	3.40	100	SWHF 110	P71B5 P71B14
	22.4	192	2.70	125		
	18.7	231	2.20	150		
	14.0	308	1.70	200		
	11.2	385	1.30	250		
	9.3	461	1.10	300		
	7.0	600	0.87	400		
	4.7	855	0.61	600		
	3.5	1111	0.47	800		
	2.8	1332	0.39	1000		
	2.3	1508	0.35	1200		
	1.8	2281	0.23	1600		
	1.4	2026	0.26	2000		
	1.2	2431	0.22	2400		
	0.9	2941	0.18	3200		
	0.7	3527	0.15	4000		

0.55 4p

n ₁ =1400 [rpm]	17.5	246	2.10	80	SWHF 110	P80B5 P80B14
	14.0	308	1.70	100		
	11.2	385	1.30	125		
	9.3	461	1.10	150		
	7.0	615	0.85	200		
	5.6	469	0.68	250		
	4.7	923	0.57	300		

0.55 6p

n ₁ =900 [rpm]	11.3	383	1.30	80	SWHF 110	P80B5 P80B14
	9.0	479	1.00	100		
	7.2	598	0.87	125		
	6.0	718	0.73	150		
	4.5	957	0.55	200		

0.75 2p

n ₁ =2800 [rpm]	35.0	168	1.40	80	SWHF 090	P80B5 P80B14
	28.0	210	1.10	100		
	22.4	262	0.91	125		
	18.7	315	0.76	150		
	14.0	420	0.57	200		



Dane techniczne

Technical data

P ₁ [kW]	n ₂ [rpm]	M ₂ [Nm]	f _s	i =		
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0.75

4p

n ₁ =1400 [rpm]	17.5 14.0	336 420	0.71 0.57	80 100	SWHF 090	P80B5 P80B14
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0.75

2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7 14.0 11.2 9.3	168 210 262 315 420 524 629	3.10 2.40 1.90 1.60 1.20 1.00 0.83	80 100 125 150 200 250 300	SWHF 110	P80B5 P80B14
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0.75

4p

n ₁ =1400 [rpm]	17.5 14.0 11.2 9.3 7.0 5.6	336 420 524 629 839 1049	1.50 1.20 1.00 0.83 0.62 0.50	80 100 125 150 200 250	SWHF 110	P80B5 P80B14
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0.75

6p

n ₁ =900 [rpm]	11.3 9.0 7.2	522 653 816	1.00 0.80 0.64	80 100 125	SWHF 110	P90B5 P90B14
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1.10

2p

n ₁ =2800 [rpm]	35.0 28.0 22.4	246 308 385	0.97 0.77 0.62	80 100 125	SWHF 090	P80B5 P80B14
-------------------------------	----------------------	-------------------	----------------------	------------------	----------	-----------------

1.10

2p

n ₁ =2800 [rpm]	35.0 28.0 22.4 18.7 14.0 11.2 9.3	246 308 385 461 615 769 923	2.10 1.70 1.30 0.85 0.68 0.57 0.44	80 100 125 150 200 250 300	SWHF 110	P80B5 P80B14
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1.10

4p

n ₁ =1400 [rpm]	17.5 14.0 11.2	492 615 769	1.00 0.85 0.68	80 100 125	SWHF 110	P90B5 P90B14
-------------------------------	----------------------	-------------------	----------------------	------------------	----------	-----------------

1.10

6p

n ₁ =900 [rpm]	11.3 9.0	766 957	0.68 0.55	80 100	SWHF 110	P90B5 P90B14
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1.50

2p

n ₁ =2800 [rpm]	35.0 28.0 22.4	336 420 524	1.50 1.20 1.00	80 100 125	SWHF 110	P90B5 P90B14
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1.50

4p

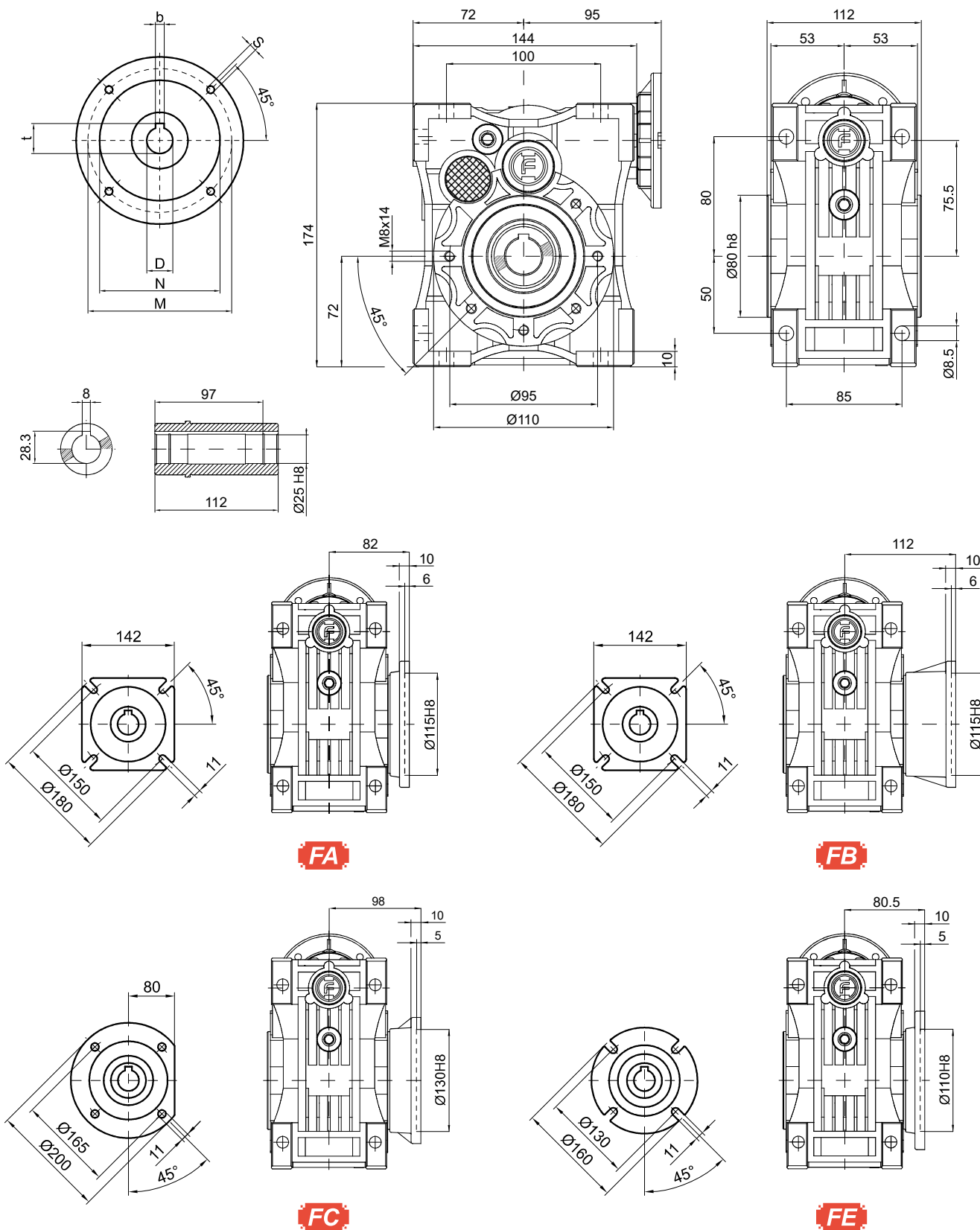
n ₁ =1400 [rpm]	17.5 14.0 11.2	671 839 1049	0.78 0.62 0.50	80 100 125	SWHF 110	P90B5 P90B14
-------------------------------	----------------------	--------------------	----------------------	------------------	----------	-----------------



Wymiary przekładni

Dimensions

SWHF - 063 - ... - P(IEC)



PAM IEC	D _{E8}	b	t	P	M	N	S
63B5	11	4	12.8	140	115	95	9
63B14	11	4	12.8	90	75	60	5.5
56B5	9	3	10.4	120	100	80	6.5
56B14	9	3	10.4	80	65	50	5.5

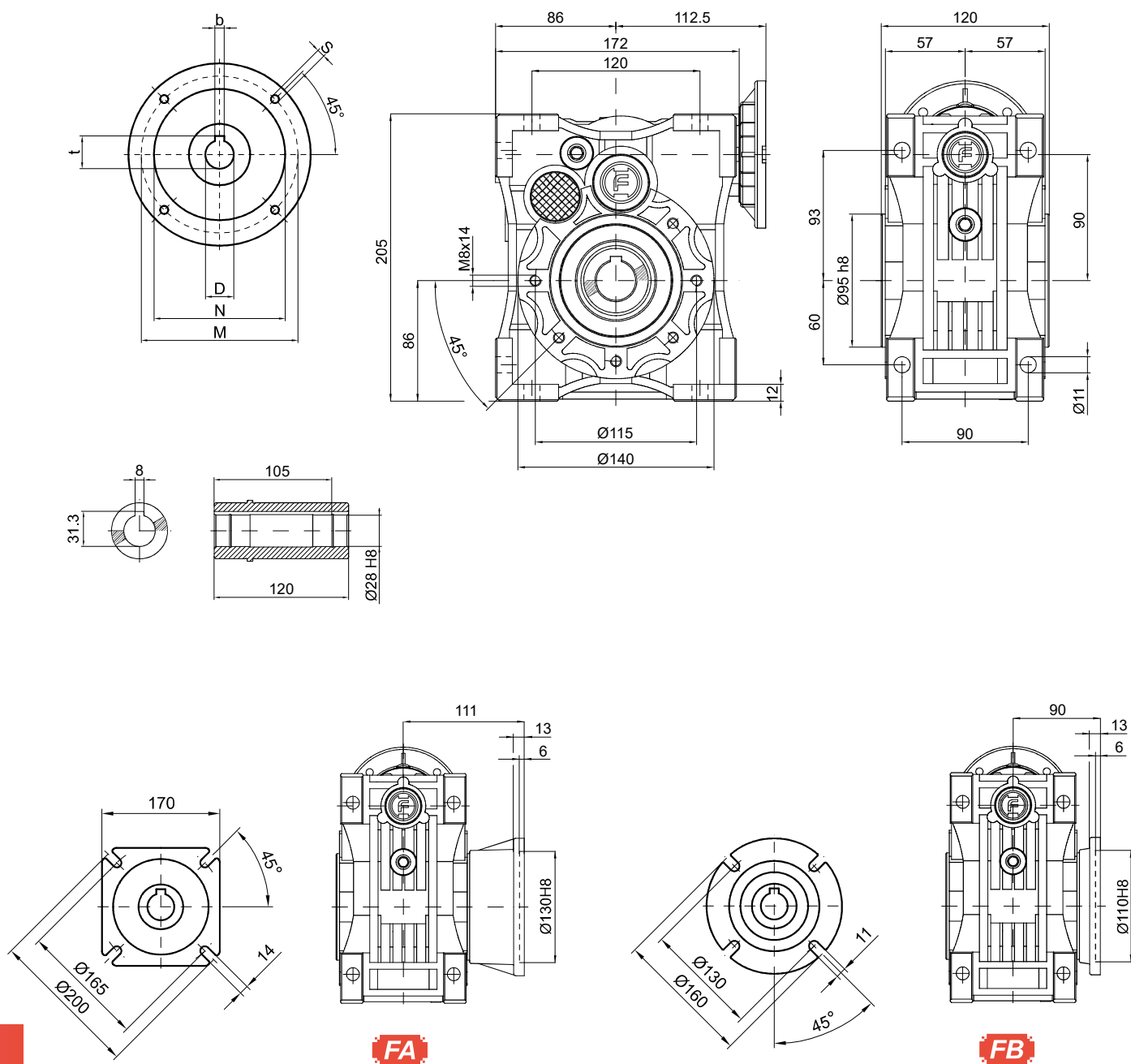
Kg
6.20
masa przekładni
bez oleju i silnika
without oil and motor



Wymiary przekładni

Dimensions

SWHF - 075 - ... - P(IEC)



PAM IEC	D _{E8}	b	t	P	M	N	S
71B5	14	5	16.3	160	130	110	8.5
71B14	14	5	16.3	105	85	70	6.5
63B5	11	4	12.8	140	115	95	9
63B14	11	4	12.8	90	75	60	6
56B5	9	3	10.4	120	100	80	6.5



9.30

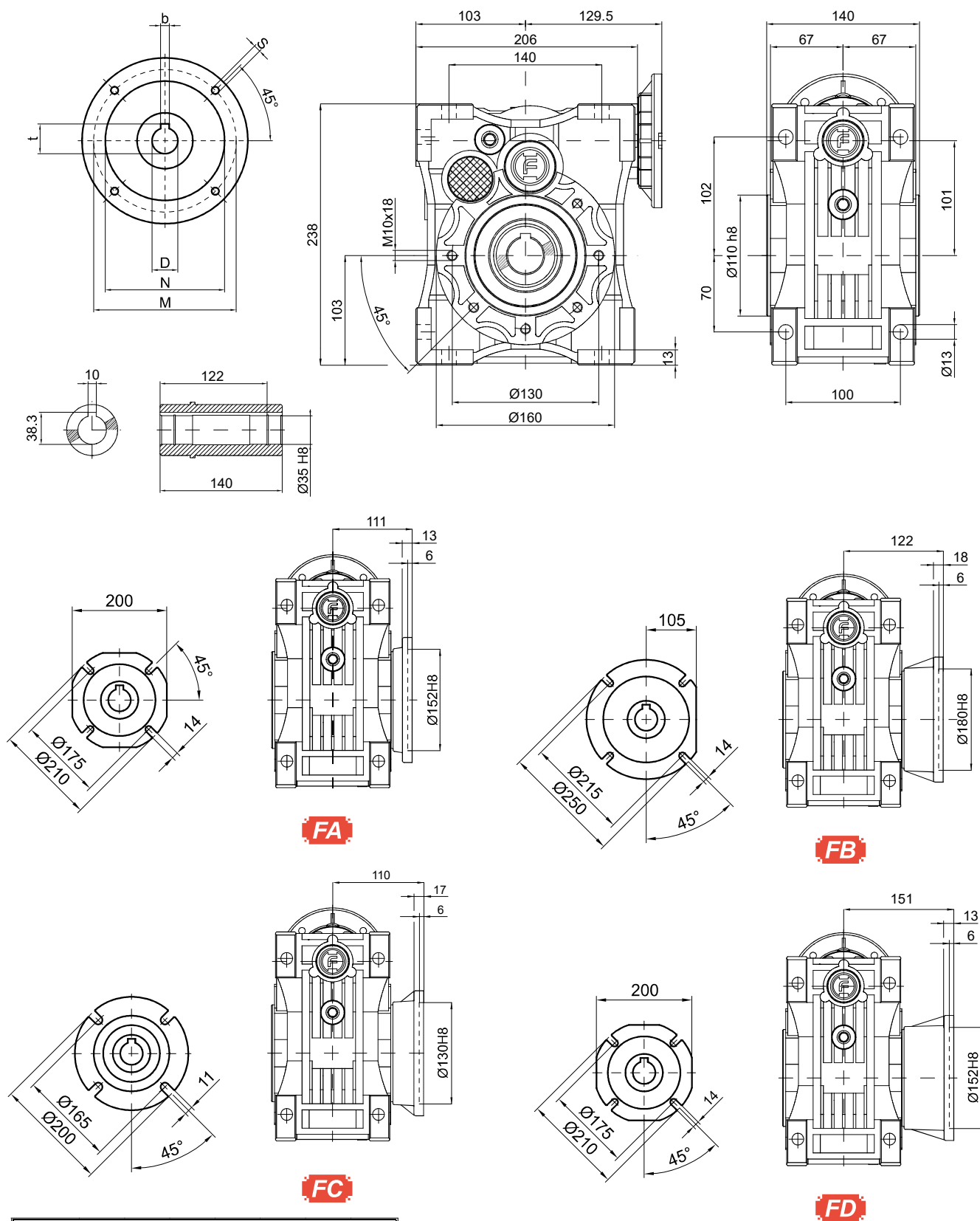
masa przekładni
bez oleju i silnika
without oil and motor



Wymiary przekładni

Dimensions

SWHF - 090 - ... - P(IEC)



PAM IEC	D _{E8}	b	t	P	M	N	S
80B5	19	6	21.8	200	165	130	11
80B14	19	6	21.8	120	100	80	6.5
71B5	14	5	16.3	160	130	110	8.5
71B14	14	5	16.3	105	85	70	7
63B5	11	4	12.8	140	115	95	8.5



13.5

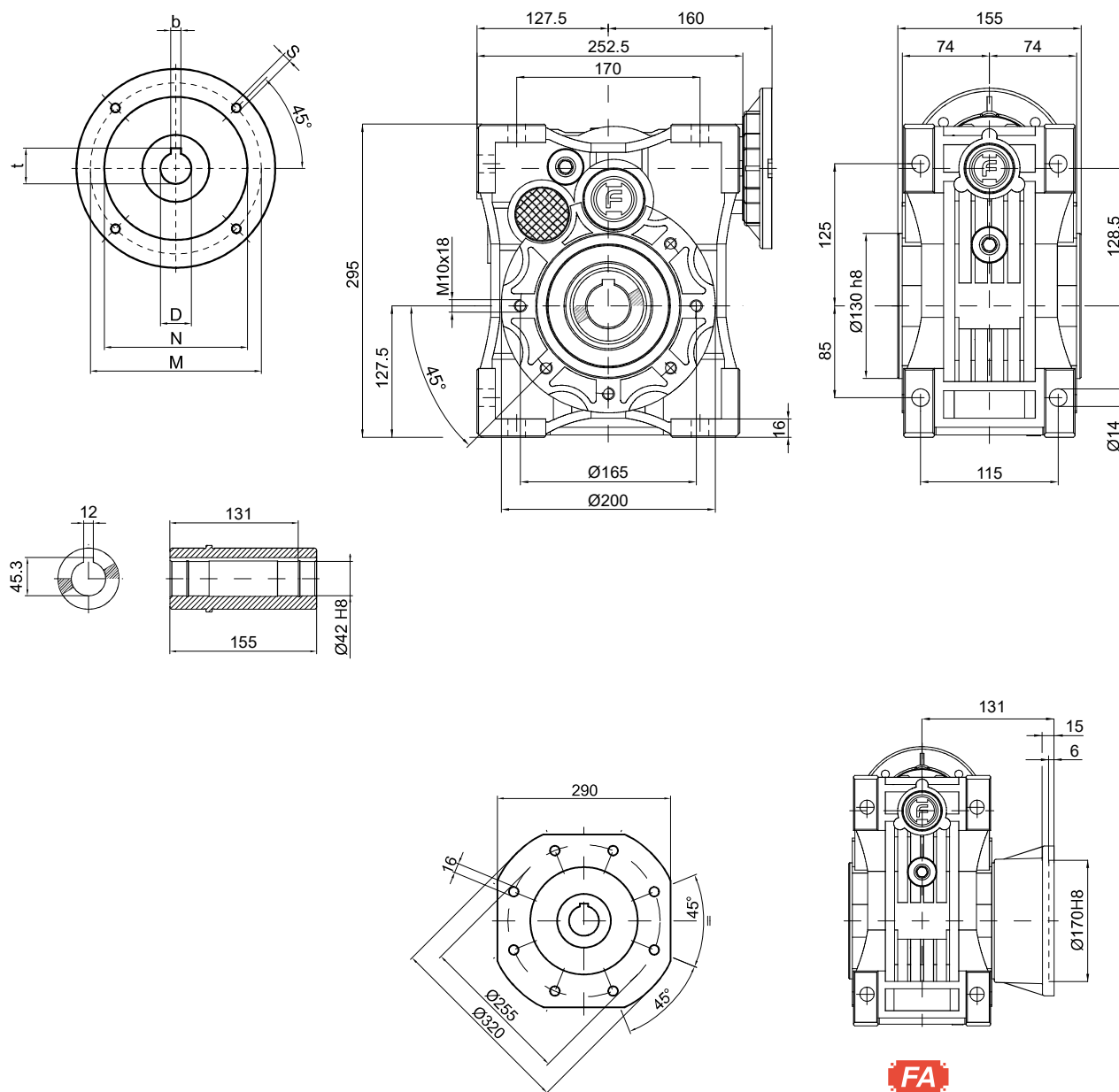
masa przekładni
bez oleju i silnika
without oil and motor



Wymiary przekładni

Dimensions

SWHF - 110 - ... - P(IEC)



FA

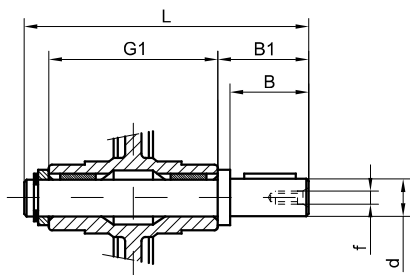
PAM IEC	D_{E8}	b	t	P	M	N	S
90B5	24	8	27.3	200	165	130	11
90B14	24	8	27.3	140	115	95	9
80B5	19	6	21.8	200	165	130	11
80B14	19	6	21.8	120	100	80	7
71B5	14	5	16.3	160	130	110	8.5
71B14	14	5	16.3	105	85	70	7

40.0

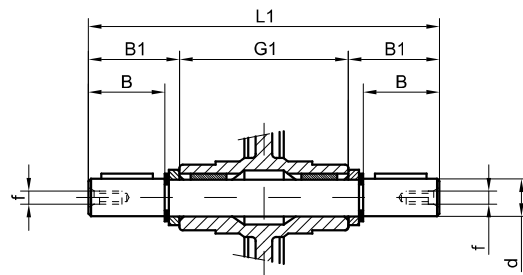
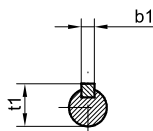
masa przekładni
bez oleju i silnika
without oil and motor



Wał wyjściowy / Output shaft



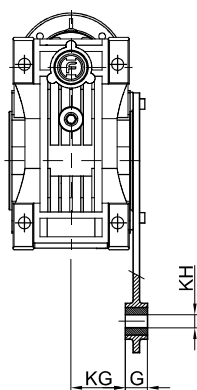
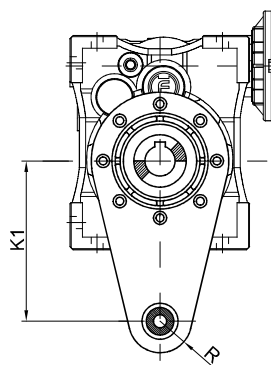
SS



DD

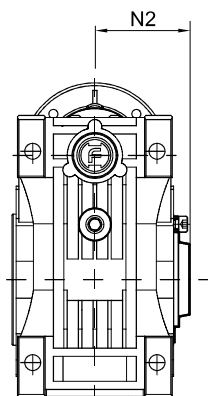
SWHF	d	B	B1	G1	L	L1	f	b1	t1
063	25 h6	50	53.5	112	173	219	M10	8	28
075	28 h6	60	63.5	120	192	247	M10	8	31
090	35 h6	80	84.5	140	234	309	M12	10	38
110	42 h6	80	84.5	155	249	324	M16	12	45

Ramię reakcyjne / Torque arm



SWHF	K1	G	KG	Kh	R
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35

Pokrywka / Safety cover



SWHF	N2
063	69
075	74
090	86
110	94



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drive solutions



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