

Input speed ( $n_1$ ) = 1750 min<sup>-1</sup>

Output speed $n_2$ [min <sup>-1</sup> ]	Ratio $i$	Motor power $P_{1M}$ [HP]	Output torque $M_{2M}$ [lb in]	Service factor $f.s$	Nominal power $P_{1R}$ [HP]	Nominal torque $M_{2R}$ [lb in]	Available NEMA motor flanges			Dynamic efficiency RD	Tooth module [mm]	Ratios code
							-W 56C	-X 143-5TC	-Y 182-4TC			
250.0	7	5	1109	2.0	9.90	2168	B	B		88	4.23	01
175.0	10	5	1441	1.7	8.40	2390	B	B		80	4.2	02
125.0	14	5	1967	1.3	6.61	2567	B	B		78	4.5	03
87.5	20	3	1707	1.5	4.41	2478	B	B		79	3.4	04
79.5	22	3	1854	1.3	4.06	2478	B	B		78	3.1	05
62.5	28	3	2269	1.3	3.91	2921	B	B		75	4.7	06
46.1	38	3	2915	1.0	2.95	2832	B	B		71	3.5	07
38.0	46	2	2253	1.2	2.47	2744	B	B		68	3.1	08
33.7	52	2	2472	1.0	1.99	2434	B	B		66	2.7	09
26.1	67	1.5	2353	1.0	1.57	2434	B	B		65	2.1	10
23.6	74	1.5	2319	1.0	1.48	2257	B	B		58	1.9	11
18.2	96	1	1833	1.1	1.13	2036	B	B		53	1.5	12

The nominal power should be reduced if the ambient temperature is  $\geq 30^\circ\text{C}$ , or when a cooler gearbox is required.  
 Diminuire la potenza nominale in caso di temperatura ambiente  $\geq 30^\circ\text{C}$  o se è richiesta una bassa temperatura di utilizzo del riduttore.

-  **Motor flanges available**  
Flange motore disponibili
-  **B) Supplied with reduction bushing**  
Fornito con bussola di riduzione
- B) Available on request without reduction bushing**  
Disponibile a richiesta senza bussola di riduzione
-  **C) Motor flange holes position**  
Posizione fori flangia motore

## Lubrication

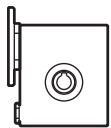
### Lubrificazione

Unit I85 is supplied with synthetic oil to assure long life lubrication.  
 Food grade oil is available on request.  
 See Table 1 for lubrication and recommended quantity.  
 See Table 2 for possible radial and axial loads on the gearbox.

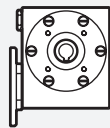
Il riduttore tipo I85 viene fornito con olio sintetico e lubrificazione tipo "long life".  
 Disponibile a richiesta olio alimentare.  
 Vedi Tabella 1 per oli e quantità consigliati.  
 Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

**Shell** Omala S4 WE 320  
**Eni** Telium VSF 320

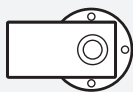
**B3**  
Standard  
49.3 oz



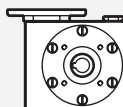
**B8**  
On request  
49.3 oz



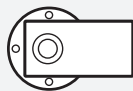
**B6**  
On request  
49.3 oz



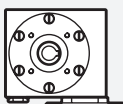
**V5**  
On request  
49.3 oz



**B7**  
On request  
59.8 oz



**V6**  
On request  
49.3 oz



For more details on lubrication and plugs check our website.  
 Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web.

Tab. 1

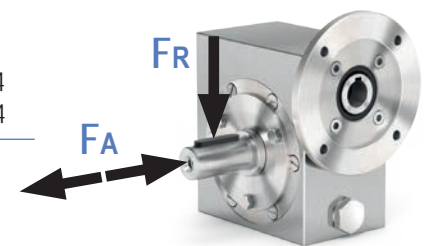
## Radial and axial loads

### Carichi radiali e assiali

### Output shaft

#### Albero di uscita

$n_2$ [min <sup>-1</sup> ]	FA [lb]	FR [lb]
200	112	562
150	130	652
100	135	674
75	157	787
50	180	899
25	225	1124
15	261	1304



Tab. 2

## Suggested

### Suggerito

Stainless steel protection cap  
 (on request).

Coperchio di protezione in  
 acciaio inox a richiesta.

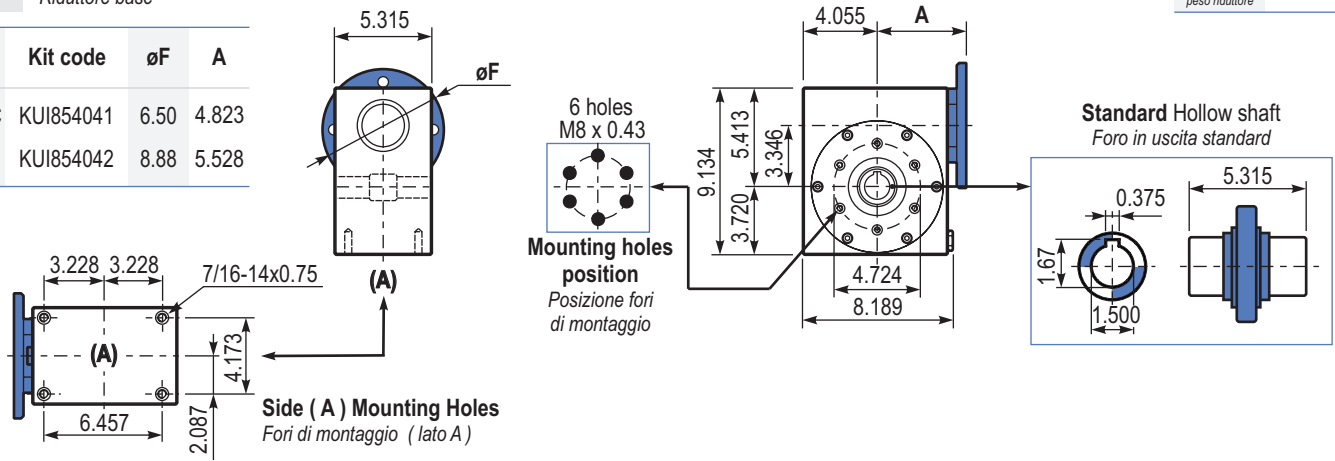
Kit cod. KI850211



PI85UNI... **Basic gearbox**  
Riduttore base

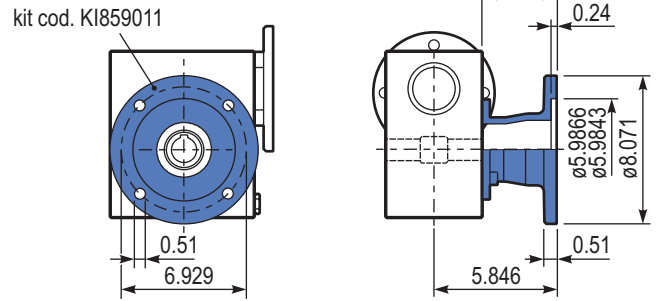
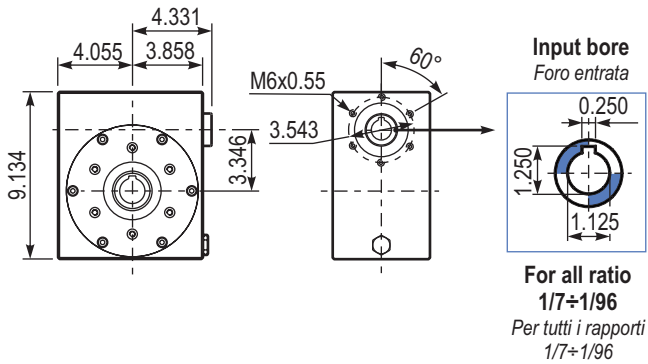
Gearbox weight  
peso riduttore **51.4 lb**

M. flanges	Kit code	øF	A
56C-143/5TC	KUI854041	6.50	4.823
182/4TC	KUI854042	8.88	5.528



B185UNI... **Modular base**  
Base modulare

PI85FLL... **Output flange**  
Flangia uscita



PI85BRI... **Reaction arm**  
Braccio di reazione

PI85....SIH **Single Shaft**  
Albero lento semplice

