



Driving Industry World Over

IE2

CE



OXFORD® ISO9001				CE	
THREE PHASE INDUCTION MOTOR					
IP55	S1	S1255	INS CLASS F		
V45	EFF 88.7	DRIVE END BRG	6208	SER NO.	11000003
AMB 50%		OPP END BRG	6208	FRAME	132M
7.5	KW	HP	10.0	WE	80kg
			RPM	1440	

World Class Induction Motors

OXFORD Motors is proud to introduce the IP55 Metric Motor line of rugged, all-purpose motors. The cast iron, totally enclosed fan cooled IP55 construction makes this motor the preferred choice for almost any application in even the toughest environments.

TYPICAL APPLICATIONS:

- ★ Material handling
- ★ Fans, Blowers
- ★ Lifts
- ★ Valve Actuators
- ★ Saw Mills
- ★ Cranes
- ★ Granite / Marble / Stone Industry
- ★ Machine Tools
- ★ Agro Industry
- ★ Stone Crushers
- ★ Fertilizers
- ★ Textiles
- ★ Food Processing
- ★ Pulverisers
- ★ Compressors
- ★ Pumps
- ★ Gear Drives
- ★ Flour Mills

STANDARD RATINGS :

2 pole 0.18-315Kw 6 pole 0.18-250Kw
4 pole 0.12-315Kw 8 pole 0.18-200Kw

EFFICIENCY :

Confirm to IE2 Level & are marked.

POWER SUPPLY :

For greater application flexibility and increased safety margin our motors are suitable for 415V +/-10%, 50Hz +/-5%, combined variation allowed +/-10%

AMBIENT TEMPERATURE :

-15 to 50 degree C is standard.

SERVICE FACTOR :

These motors have a 1.00 S.F. at 50Hz, typical for IEC motors, Duty class S1.



CONSTRUCTION :

The rugged cast iron construction of the frame, endshields, integral feet and flanges absorbs Shock and reduce motor vibration to provide a low-maintenance motor life.

TERMINAL BOX :

The terminal box is of cast iron construction and is available on Top.

STATOR WINDING & INSULATION:

The stator core is built up from low loss, high permeability, silicon steel for increased efficiency. It features a class F insulation system with design for class B maximum temperature rise.

ROTOR :

The rotor is built with the same high quality lamination steel, die cast with high conductivity aluminum, Shrink fit on to a high strength carbon-steel shaft. The rotor assembly is dynamically balanced to Provide low noise and smooth, vibration-free operation for long trouble free life.

BEARINGS :

All motors use 100,000 hours direct coupled/25,000 hours belted, anti-friction, deep-grooved ball Bearings 160 Frame & above of 63 series, on drive, tight fit in

COOLING METHOD:

IC 411 bi directional cooling fan.

CONNECTION:

Star-connection for up to 3Kw, delta-connection for 4Kw and above.

WARRANTY:

Oxford motors are warranted to be free from defects in material, workmanship for a period of one year.



TECHNICAL DATA

415V IE2 SERIES MOTORS TECHNICAL SPECIFICATIONS (2 Pole)

Type	Power		Current (A) at 415V	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	Max Torque	Locked Torque	Locked Current	Noise Limit dB(A)	Vibration Limit (mm/s)	Weight (kg)
	kW	HP					Rated Torque	Rated Torque	Rated Current			
YE2-80M1-2	0.75	1.0	162	2840	77.4	0.83	2.3	2.3	6.8	62	1.8	15
YE2-80M2-2	1.1	1.5	2.32	2840	79.6	0.83	2.3	2.3	7.3	62	1.8	16
YE2-90S-2	1.5	2.0	3.06	2880	81.3	0.84	2.3	2.3	7.6	67	1.8	22
YE2-90L-2	2.2	3.0	4.33	2880	83.2	0.85	2.3	2.3	7.8	67	1.8	25
YE2-100L-2	3	4.0	5.67	2880	84.6	0.87	2.3	2.3	8.1	74	1.8	37
YE2-112M-2	4	5.5	7.37	2895	85.8	0.88	2.3	2.3	8.3	77	1.8	48
YE2-132S1-2	5.5	7.5	9.98	2920	87.0	0.88	2.3	2.2	8.0	79	1.8	64
YE2-132S2-2	7.5	10	13.28	2920	88.1	0.89	2.3	2.2	7.8	79	1.8	69
YE2-160M1-2	11	15	19.23	2930	89.4	0.89	2.3	2.2	7.9	81	2.8	112
YE2-160M2-2	15	20	25.91	2930	90.3	0.89	2.3	2.2	8	81	2.8	123
YE2-160L-2	18.5	25	31.77	2930	90.9	0.89	2.3	2.2	8.1	81	2.8	144
YE2-180M-2	22	30	37.63	2940	91.3	0.89	2.3	2.2	8.2	83	2.8	179
YE2-200L1-2	30	40	50.91	2950	92.0	0.89	2.3	2.2	7.5	84	2.8	242
YE2-200L2-2	37	50	62.54	2950	92.5	0.89	2.3	2.2	7.5	84	2.8	258
YE2-225M-2	45	60	75.73	2960	92.9	0.89	2.3	2.2	7.6	86	2.8	326
YE2-250M-2	55	75	91.57	2965	93.2	0.89	2.3	2.2	7.6	89	3.5	415
YE2-280S-2	75	100	124.53	2975	93.8	0.89	2.3	2.0	6.9	91	3.5	588
YE2-280M-2	90	125	149.25	2975	94.1	0.89	2.3	2.0	7.0	91	3.5	642
YE2-315S-2	110	150	180.39	2975	94.3	0.90	2.2	2.0	7.1	92	3.5	971
YE2-315M-2	132	175	215.18	2975	94.6	0.90	2.2	2.0	7.1	92	3.5	1092
YE2-315L1-2	160	220	257.30	2975	95.0	0.91	2.2	2.0	7.1	92	3.5	1187
YE2-315L2-2	200	270	321.40	2975	95.0	0.91	2.2	2.0	7.1	92	3.5	1276
YE2-355M-2	250	350	401.98	2980	95.0	0.91	2.2	2.0	7.1	100	3.5	1790
YE2-355L-2	315	425	506.36	2980	95.0	0.91	2.2	2.0	7.1	100	3.5	2153

415V IE2 SERIES MOTORS TECHNICAL SPECIFICATIONS (4 Pole)

Type	Power		Current (A) 415V	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	Max Torque	Locked Torque	Locked Current	Noise Limit dB(A)	Vibration Limit (mm/s)	Weight (kg)
	kW	HP					Rated Torque	Rated Torque	Rated Current			
YE2-80M2-4	0.75	1.0	1.75	1390	79.6	0.75	2.3	2.3	6.5	56	1.8	16
YE2-90S-4	1.1	1.5	2.51	1410	81.4	0.75	2.3	2.3	6.6	59	1.8	22
YE2-90L-4	1.5	2.0	3.36	1410	82.8	0.75	2.3	2.3	6.9	59	1.8	25
YE2-100L1-4	2.2	3.0	4.49	1430	84.3	0.81	2.3	2.3	7.5	64	1.8	37
YE2-100L2-4	3	4.0	5.95	1430	85.5	0.82	2.3	2.3	7.6	64	1.8	39
YE2-112M-4	4	5.5	7.84	1435	86.6	0.82	2.3	2.3	7.7	65	1.8	51
YE2-132S-4	5.5	7.5	10.62	1440	87.7	0.82	2.3	2.0	7.5	71	1.8	66
YE2-132M-4	7.5	10	14.10	1440	88.7	0.83	2.3	2.0	7.4	71	1.8	80
YE2-160M-4	11	15	20.05	1460	89.8	0.85	2.3	2.2	7.5	73	2.8	122
YE2-160L-4	15	20	26.74	1460	90.6	0.86	2.3	2.2	7.5	73	2.8	138
YE2-180M-4	18.5	25	32.78	1470	91.2	0.86	2.3	2.2	7.7	76	2.8	173
YE2-180L-4	22	30	38.82	1470	91.6	0.86	2.3	2.2	7.8	76	2.8	191
YE2-200L-4	30	40	52.56	1470	92.3	0.86	2.3	2.2	7.2	76	2.8	253
YE2-225S-4	37	50	64.55	1475	92.7	0.86	2.3	2.2	7.3	78	2.8	319
YE2-225M-4	45	60	78.20	1475	93.1	0.86	2.3	2.2	7.4	78	2.8	341
YE2-250M-4	55	75	95.23	1480	93.5	0.86	2.3	2.2	7.4	79	3.5	436
YE2-280S-4	75	100	125.45	1485	94.0	0.88	2.3	2.2	6.7	80	3.5	591
YE2-280M-4	90	125	151.08	1485	94.2	0.88	2.3	2.2	6.9	80	3.5	693
YE2-315S-4	110	150	184.05	1485	94.5	0.88	2.2	2.2	6.9	88	3.5	982
YE2-315M-4	132	175	219.76	1485	94.7	0.88	2.2	2.2	6.9	88	3.5	1171
YE2-315L1-4	160	220	262.80	1485	94.9	0.89	2.2	2.2	6.9	88	3.5	1223
YE2-315L2-4	200	270	328.72	1485	95.1	0.89	2.2	2.2	6.9	88	3.5	1334
YE2-355M-4	250	350	405.64	1490	95.1	0.90	2.2	2.2	6.9	95	3.5	1806
YE2-355L-4	315	425	511.86	1490	95.1	0.90	2.2	2.2	6.9	95	3.5	2016

Note:-

• Data subject to change without notice.

TECHNICAL DATA

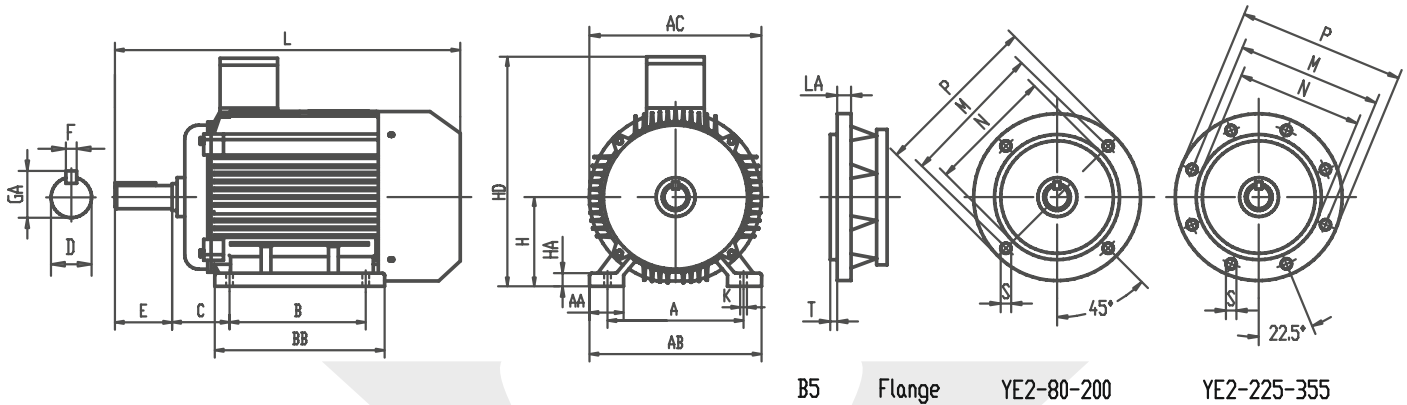
415V IE2 SERIES MOTORS TECHNICAL SPECIFICATIONS (6 Pole)

Type	Power		Current (A) 415V	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	Max Torque Rated Torque	Locked Torque Rated Torque	Locked Current Rated Current	Noise Limit dB(A)	Vibration Limit (mm/s)	Weight (kg)
	kW	HP										
YE2-90S-6	0.75	1.0	1.91	910	75.9	0.72	2.1	2.1	5.8	57	1.8	22
YE2-90L-6	1.1	1.5	2.68	910	78.1	0.73	2.1	2.1	5.9	57	1.8	25
YE2-100L-6	1.5	2.0	3.53	920	79.8	0.74	2.1	2.1	6.0	61	1.8	33
YE2-112M-6	2.2	3.0	5.05	935	81.8	0.74	2.1	2.1	6.0	65	1.8	48
YE2-132S-6	3	4.0	6.77	960	83.3	0.74	2.1	2.0	6.2	69	1.8	63
YE2-132M1-6	4	5.5	8.89	960	84.6	0.74	2.1	2.0	6.8	69	1.8	75
YE2-132M2-6	5.5	7.5	11.81	960	86.0	0.75	2.1	2.0	7.1	69	1.8	84
YE2-160M-6	7.5	10	15.29	970	87.2	0.78	2.1	2.1	6.7	73	2.8	116
YE2-160L-6	11	15	21.79	970	88.7	0.79	2.1	2.1	6.9	73	2.8	140
YE2-180L-6	15	20	28.66	970	89.7	0.81	2.1	2.0	7.2	73	2.8	184
YE2-200L1-6	18.5	25	35.16	980	90.4	0.81	2.1	2.1	7.2	73	2.8	233
YE2-200L2-6	22	30	41.02	980	90.9	0.82	2.1	2.1	7.3	73	2.8	245
YE2-225M-6	30	40	56.13	980	91.7	0.81	2.1	2.0	7.1	74	2.8	319
YE2-250M-6	37	50	66.48	980	92.2	0.84	2.1	2.1	7.1	76	3.5	401
YE2-280S-6	45	60	78.47	980	92.7	0.86	2.0	2.1	7.2	78	3.5	546
YE2-280M-6	55	75	95.23	980	93.1	0.86	2.0	2.1	7.2	78	3.5	611
YE2-315S-6	75	100	130.94	985	93.7	0.85	2.0	2.0	6.7	83	3.5	924
YE2-315M-6	90	125	158.41	985	94.0	0.84	2.0	2.0	6.7	83	3.5	1040
YE2-315L1-6	110	150	190.46	985	94.3	0.85	2.0	2.0	6.7	83	3.5	1134
YE2-315L2-6	132	175	225.25	985	94.6	0.86	2.0	2.0	6.7	83	3.5	1239
YE2-355M1-6	160	220	269.20	990	94.8	0.87	2.0	2.0	6.7	85	3.5	1712
YE2-355M2-6	200	270	336.05	990	95.0	0.87	2.0	2.0	6.7	85	3.5	1843
YE2-355L-6	250	350	420.29	990	95.0	0.87	2.0	2.0	6.7	85	3.5	2048

415V IE2 SERIES MOTORS TECHNICAL SPECIFICATIONS (8 Pole)

Type	Power		Current (A) 415V	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	Max Torque Rated Torque	Locked Torque Rated Torque	Locked Current Rated Current	Noise Limit dB(A)	Vibration Limit (mm/s)	Weight (kg)
	kW	HP										
YE2-355L-6	250	350	420.29	990	95.0	0.87	2.0	2.0	6.7	85	3.5	2048
YE2-132S-8	2.2	3.0	5.56	705	77.6	0.71	2.0	1.8	6.4	64	1.8	58
YE2-132M-8	3	4.0	7.15	705	80	0.73	2.0	1.8	6.8	64	1.8	65
YE2-160M1-8	4	5.5	9.31	720	81.9	0.73	2.0	1.9	6.8	68	2.8	89
YE2-160M2-8	5.5	7.5	12.34	720	83.8	0.74	2.0	1.9	6.7	68	2.8	109
YE2-160L-8	7.5	10	16.31	720	85.3	0.75	2.0	1.9	6.4	68	2.8	129
YE2-180L-8	11	15	23.48	730	86.9	0.75	2.0	2.0	6.5	70	2.8	173
YE2-200L-8	15	20	31.20	730	88	0.76	2.0	2.0	6.6	73	2.8	224
YE2-225S-8	18.5	25	38.22	730	88.6	0.76	2.0	1.9	6.6	73	2.8	260
YE2-225M-8	22	30	44.04	730	89.1	0.78	2.0	1.9	6.6	73	2.8	293
YE2-250M-8	30	40	58.83	735	89.8	0.79	2.0	1.9	6.5	75	3.5	363
YE2-280S-8	37	50	72.16	735	90.3	0.79	2.0	1.9	6.5	76	3.5	467
YE2-280M-8	45	60	87.37	735	90.7	0.79	2.0	1.9	6.5	76	3.5	504
YE2-315S-8	55	75	103.81	735	91	0.81	2.0	1.8	6.6	82	3.5	796
YE2-315M-8	75	100	140.63	735	91.6	0.81	2.0	1.8	6.1	82	3.5	979
YE2-315L1-8	90	125	166.16	735	91.9	0.82	2.0	1.8	6.2	82	3.5	1040
YE2-315L2-8	110	150	202.2	735	92.3	0.82	2.0	1.8	6.3	82	3.5	1283
YE2-355M1-8	132	175	241.85	740	92.6	0.82	2.0	1.8	6.3	89	3.5	1530
YE2-355M2-8	160	220	291.90	740	93	0.82	2.0	1.8	6.3	89	3.5	1632
YE2-355L-8	200	270	358.55	740	93.5	0.83	2.0	1.8	6.4	89	3.5	1918

Overall and mounting Dimensions Series IE2-80-355 Asynchronous Motors

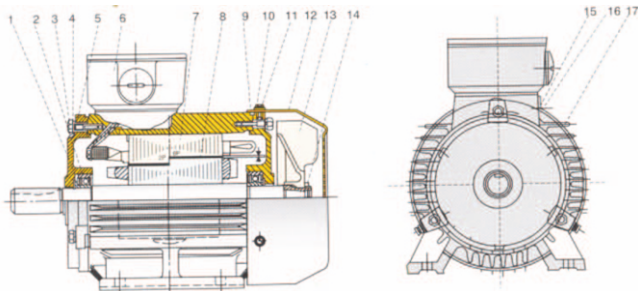


Frame	Poles	Feet								Base			Shaft					Flange B5							
		H	B	A	HA	BB	AB	K	AA	AC	L	HD	C	D	E	GA	F	LA	P	N	M	T	S		
80 M	2-4	80	100	125	10	150	165	10	34	175	305	220	50	19	40	21.5	6	12	200	130	165	3.5	12		
90 S	2-6	90	100	140	12	165	180	10	36	195	360	260	56	24	50	27	8	12	200	130	165	3.5	12		
90 L	2-6	90	125	140	12	195	180	10	36	195	390	260	56	24	50	27	8	12	200	130	165	3.5	12		
100 L	2-6	100	140	160	14	200	205	12	40	215	435	275	63	28	60	31	8	14	250	180	215	4	14.5		
112 M	2-6	112	140	190	15	200	230	12	45	240	440	300	70	28	60	31	8	14	250	180	215	4	14.5		
132 S	2-6	132	140	216	18	190	265	12	55	275	470	345	89	38	80	41	10	14	300	230	265	4	14.5		
132 M	2-6	132	178	216	18	230	265	12	55	275	510	345	89	38	80	41	10	14	300	230	265	4	14.5		
160 M	2-6	160	210	254	20	260	320	14.5	65	330	615	420	108	42	110	45	12	15	350	250	300	5	18.5		
160 L	2-6	160	254	254	20	305	320	14.5	65	330	670	420	108	42	110	45	12	15	350	250	300	5	18.5		
180 M	2-6	180	241	279	22	315	355	14.5	70	380	700	455	121	48	110	51.5	14	17	350	250	300	5	18.5		
180 L	2-6	180	279	279	22	355	355	14.5	70	380	740	455	121	48	110	51.5	14	17	350	250	300	5	18.5		
200 L	2-6	200	305	318	25	375	395	18.5	70	410	770	505	133	55	110	59	16	20	400	300	350	5	18.5		
225 S	4-6	225	286	356	28	375	435	18.5	75	460	815	555	149	60	140	64	18	20	450	350	400	5	18.5		
225 M	2	225	311	356	28	400	435	18.5	75	460	820	555	149	55	110	59	16	20	450	350	400	5	18.5		
225 M	4-6	225	311	356	28	400	435	18.5	75	460	845	555	149	60	140	64	18	20	450	350	400	5	18.5		
250 M	2	250	349	406	30	445	490	24	80	510	915	615	168	60	140	64	18	22	550	450	500	5	18.5		
250 M	4-6	250	349	406	30	445	490	24	80	510	915	615	168	65	140	69	18	22	550	450	500	5	18.5		
280 S	2	280	368	457	35	490	550	24	85	580	975	680	190	65	140	69	18	22	550	450	500	5	18.5		
280 S	4-6	280	368	457	35	490	550	24	85	580	975	680	190	75	140	79.5	20	22	550	450	500	5	18.5		
280 M	2	280	419	457	35	540	550	24	85	580	1025	680	190	65	140	69	18	22	550	450	500	5	18.5		
280 M	4-6	280	419	457	35	540	550	24	85	580	1025	680	190	75	140	79.5	20	22	550	450	500	5	18.5		
315 S	2	315	406	508	45	570	630	28	120	645	1215	845	216	65	140	69	18	22	660	550	600	6	24		
315 S	4-6	315	406	508	45	570	630	28	120	645	1245	845	216	80	170	85	22	22	660	550	600	6	24		
315 M	2	315	457	508	45	680	630	28	120	645	1325	845	216	65	140	69	18	22	660	550	600	6	24		
315 M	4-6	315	457	508	45	680	630	28	120	645	1355	845	216	80	170	85	22	22	660	550	600	6	24		
315 L	2	315	508	508	45	680	630	28	120	645	1325	845	216	65	140	69	18	22	660	550	600	6	24		
315 L	4-6	315	508	508	45	680	630	28	120	645	1355	845	216	80	170	85	22	22	660	550	600	6	24		
355 M	2	355	560	610	52	760	730	28	116	710	1515	1010	254	75	140	79.5	20	25	800	680	740	6	24		
355 M	4-6	355	560	610	52	760	730	28	116	710	1545	1010	254	95	170	100	25	25	800	680	740	6	24		
355 L	2	355	630	610	52	760	730	28	116	710	1515	1010	254	75	140	79.5	20	25	800	680	740	6	24		
355 L	4-6	355	630	610	52	760	730	28	116	710	1545	1010	254	95	170	100	25	25	800	680	740	6	24		

Note:-

• Data subject to change without notice.

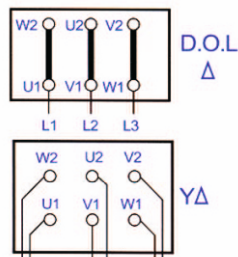
MATERIAL LIST



Item	Description	Item	Description
1	Wave-form Washer	9	NDE Shield
2	Bearing	10	Screw
3	Bolt	11	Washer
4	Spring Washer	12	Fan Cowl
5	DE shields	13	Fan
6	Terminal Box	14	Circlip
7	Stator Pack With Winding	15	Rivet
8	Rotor	16	Nameplate
		17	Frame

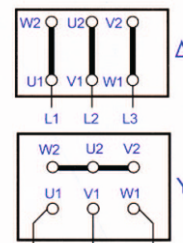
Connection Diagrams

Star Delta



Motors of 3kW and above

Dual Voltage Δ / Y



Motors of 2.2kW and below

OPERATING CONDITION

Type	Three phase squirrel cage induction motor	
Enclosure	—	Totally - Enclosed Fan Cooled
Voltage $\pm$ variation	—	415 $\pm$ 10%
Frequency $\pm$ variation	—	50HZ $\pm$ 5%
Combined variation	—	10% (Absolute Sum)
Altitude	—	Up to 1000M
Relative Humidity	—	Up to 100%
Degree Of Protection	—	IP55
Class Of Insulation	—	Class F
Ambient Temperature	—	50 C°
Service Factor	—	1.00
Duty	—	S1 / Continuous
Position of Terminal Box	—	Top at Drive End
Connection	—	Up to 3 kw - Star >4 kw - Delta
No. of leads	—	3 / 6 leads for STAR / DELTA
Direction Of Rotation	—	Bi - directional
Cooling	—	IC 411 (TEFC)

Frame size	Bearing size	
	D.E.	O.D.E.
63	6201	6201
71	6202	6202
80	6204	6204
90	6205	6205
100	6206	6206
112	6206	6206
132	6208	6208
160-2	6209	6209
160-4 6 8	6309	6309
180-2	6211	6211
180-4 6 8	6311	6311
200-2	6212	6212
200-4 6 8	6312	6312
225-2	6312	6312
225-4 6 8	6313	6312
250-2	6313	6313
250-4 6 8	6314	6313
280-2	6314	6314
280-4 6 8	6317	6314
315-2	6317	6317
315-4 6 8	N319	6319
355-2	6319	6319
355-4 6 8	N322	6322

* Center height 63-160 have bearings permanently greased in factory, it don't need any greasing. Center height 180 and above have open bearing and need regular greasing. The grease type is ZL-3 lithium base grease.



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