

WILTON[®]

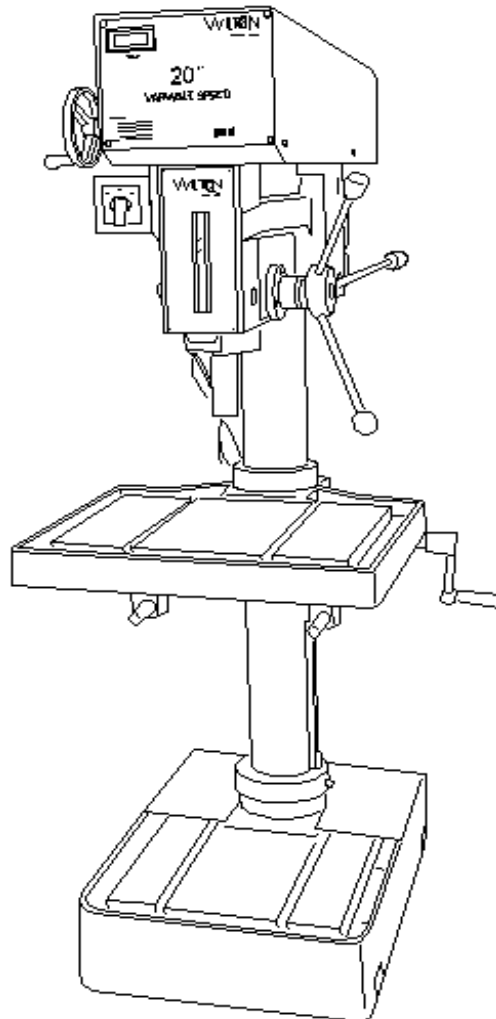
WMH TOOL GROUP

Operating Instructions — Parts Manual

20-Inch VS Drill Press

Models: 2221VS, 2223VS, 2232AC, 2234AC

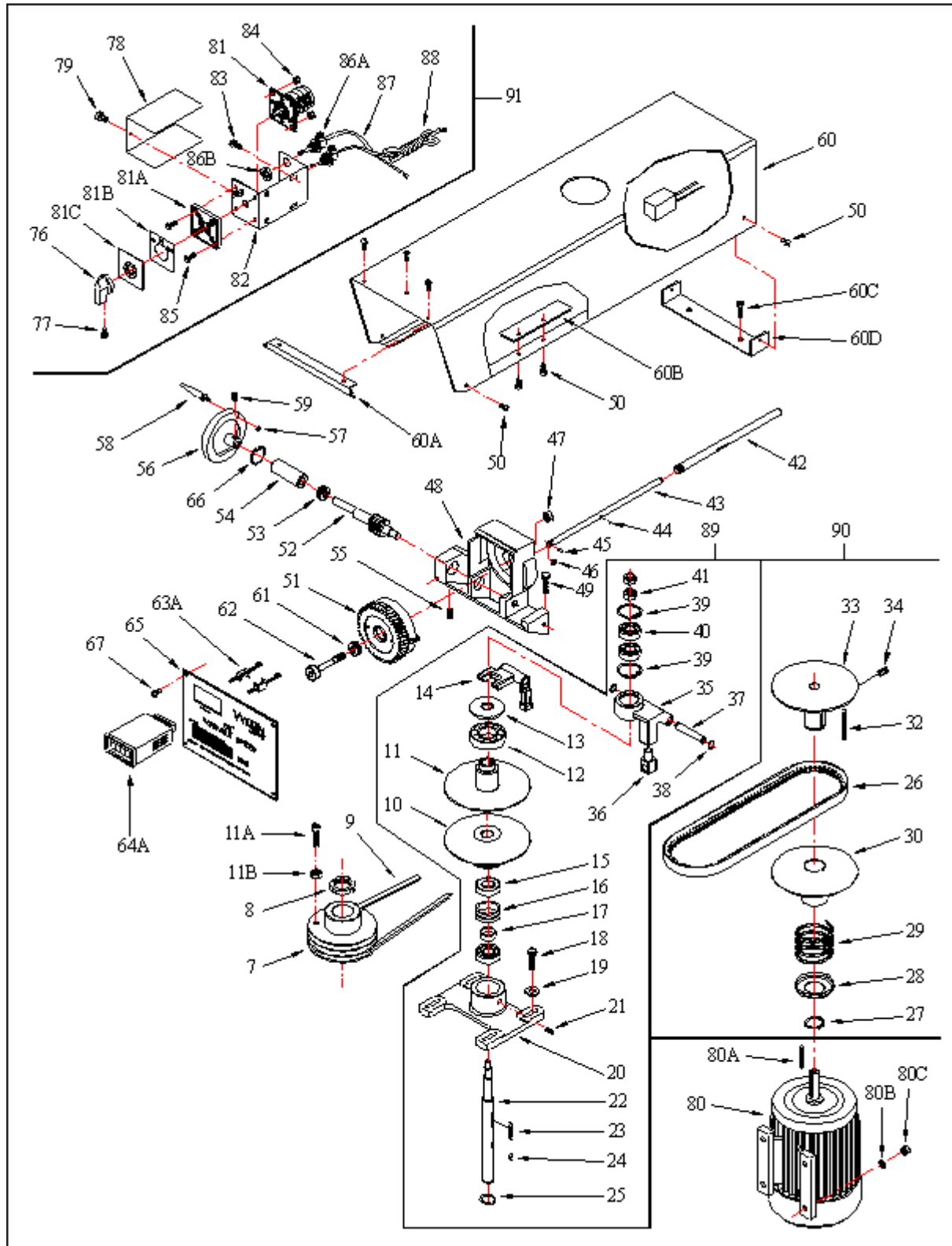
Serial Number 201001 and greater



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Exploded View — Drill Head — Manual Speed Control (Models 2221VS and 2223VS)

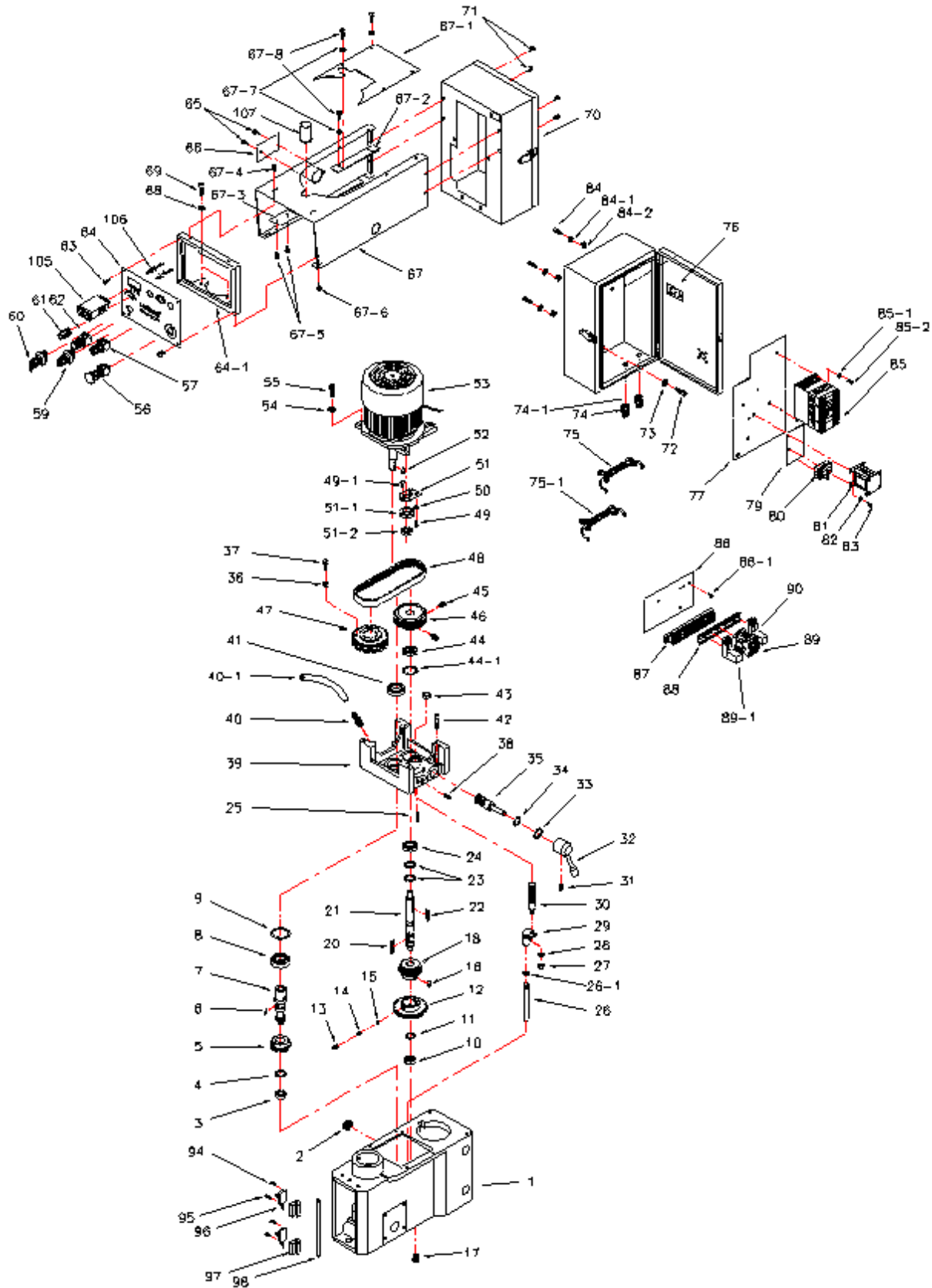


Parts Listing — Drill Head — Manual Speed Control

(Models 2221VS and 2223VS)

Item No.	Part Number	Description	Qty	Item No.	Part Number	Description	Qty
7	5510077	Pulley, Spindle Step	1	58	5510126	Grip, Hand	1
8	5510078	Nut, Spindle	1	59	5510129	Screw, Set	1
9	5510079	V-Belt	1	60	5513678	Assy., Pulley Cover (incl 60A,60B,60C,60D)	1
10	5510080	Pulley, Spindle, VS, Lower	1	60A	5513679	Bracket, Nameplate	1
11	5510081	Pulley, Spindle, VS, Upper	1	60B	5513680	Plate, Cover	1
11A	5513673	Screw, Cap	1	60C	5513681	Screw, Cap	2
11B	5513674	Nut, Hex	4	60D	5513682	Bracket, Plate	1
12	5510082	Bearing, Ball	1	61	5510131	Bearing, Thrust	1
13	5510083	Cover, Bearing	1	62	5510132	Shaft	1
14	5510084	Lever, Speed Change	1	63A	5513683	Screw, Cap	2
15	5510085	Bearing, Ball	2	64A		LED Display	
16	5510086	Bushing	1		5513519	115/230 LED Display	
17	5510087	Bushing	1		5513736	220/440 LED Display	
18	5510088	Bolt, Hex	4	65	5513690	Plate, Face	1
19	5510089	Washer	4	66	5513685	C-Ring (Hole)	1
20	5510090	Housing, Bearing	1	67	5510137	Screw, Round Head	4
21	5510091	Screw, Set	1	76	5511848	Knob	1
22	5510092	Shaft, Spindle Mid	1	77	5514634	Set Screw (M3x8)	1
23	5510093	Key	1	78	5511849	Cover	1
24	5510094	Key	1	79	5513354	Screw	2
25	5510095	C-Ring (Shaft)	1	80	5510344	Motor 2hp 1ph 115/220V	1
26	5510096	Belt, Variable Speed	1		5510345	Motor 2hp 3ph 220/440V	1
27	5510097	C-Ring (Shaft)	2	80A	5517320	Key, Square	1
28	5510098	Cover, Spring	1	80B	5517321	Washer, Flat	4
29	5510099	Spring	1	80C	5517322	Nut, Hex	4
30	5510100	Pulley, Motor, VS, Lower	1	81		Switch, Fwd/Rev	1
32	5510102	Key	1		5517323	1 Phase	
33	5510103	Pulley, Motor, VS, Upper	1		5517331	3 Phase	
34	5510104	Screw, Set	1	81A	5517324	Plate, Switch	1
35	5510105	Bracket, Speed Change	1	81B	5517325	Label	1
36	5510106	Link	1	81C	5517326	Cover, Label	1
37	5510107	Shaft	1	82	5513356	Box, Switch	1
38	5510108	C-Ring (Shaft)	1	83	5513357	Screw	2
39	5510109	C-Ring (Hole)	1	84	5513358	Nut, Hex	4
40	5510110	Bearing, Ball	2	85	5513359	Screw	4
41	5510111	Nut	2	86A	5517327	Strain Relief	2
42	5512114	Sleeve, Control Rod	1	86B	5517328	Nut, Hex	2
43	5512115	Rod, Control	1	87	5517329	Cord, Connection	1
44	5510114	Pin Spring	1	88	5517330	Cord, Power	1
45	5510115	Pin	1	89	5513935	Assy., VS Spindle Pulley	1
46	5510116	Roller	1	90	5513934	Assy., VS Motor Pulley	1
47	5510117	Nut, Hex	1	91		Assy., Switch (includes items 76-79,81-85)	1
48	5512116	Housing	1		5513355	1 Phase	
49	5513675	Screw, Cap (M8x35)	2		5514716	3 Phase	
50	5513676	Screw, Pan Head	6				
51	5510121	Gear, Helix	1				
52	5510122	Gear, Worm	1				
53	5510123	Bearing, Thrust	1				
54	5510124	Bushing	1				
55	5513677	Set Screw	1				
56	5510126	Wheel, Hand (includes #58)	1				
57	5510127	Ring, Retaining	1				

Exploded View — Drill Head — Inverter Speed Control (Models 2232AC and 2234AC)



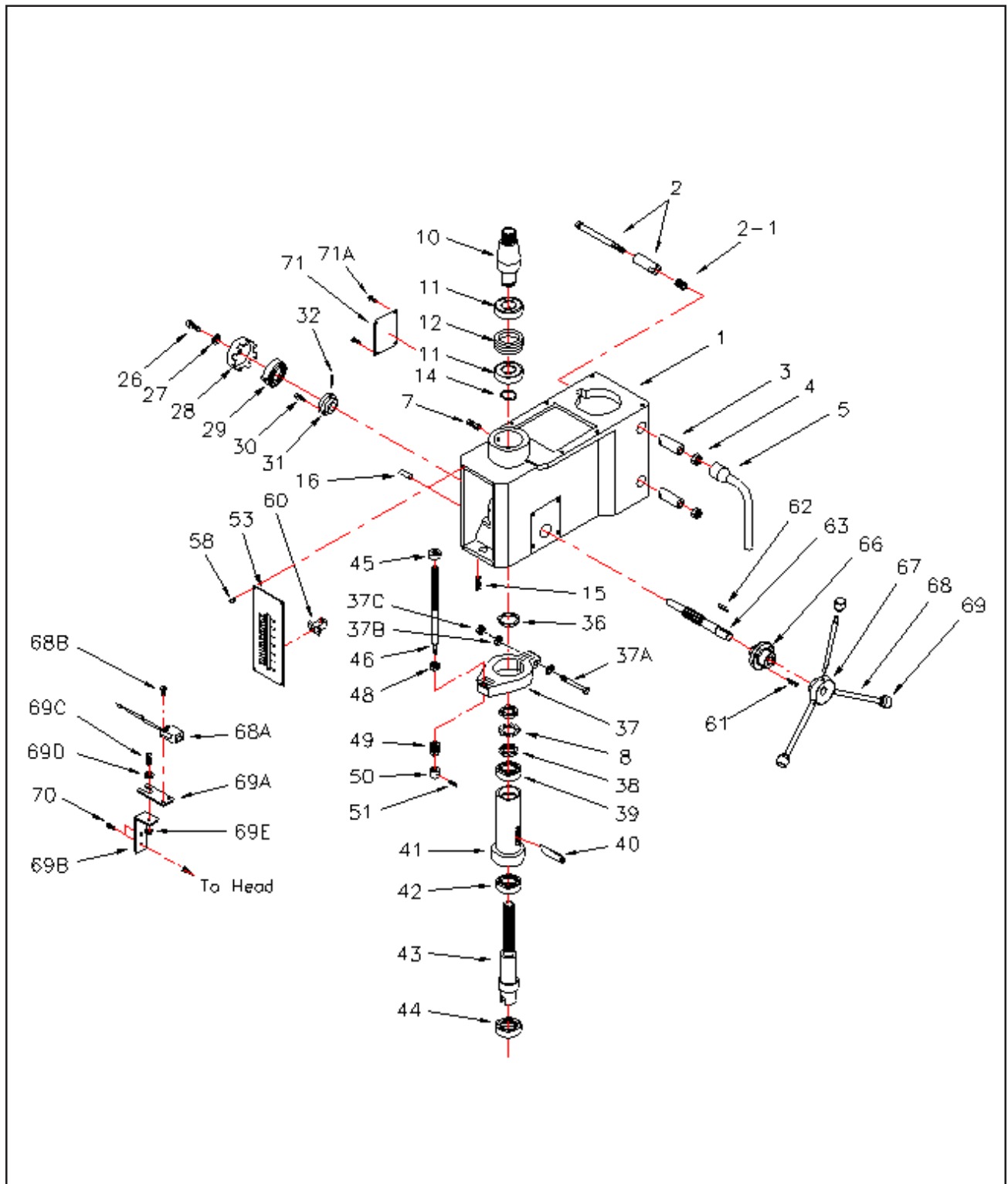
Parts Listing — Drill Head — Inverter Speed Control (Models 2232AC and 2234AC)

Item No.	Part Number	Description	Qty	Item No.	Part Number	Description	Qty
1	5517332	Casting, Head	1	51-1	5517347	Housing, Bearing	1
2	5510142	Window, Oil	1	51-2	5517348	Bearing, Ball, 6002ZZ	1
3	5510143	Bearing, Ball	1	52	5510192	Key	1
4	5510144	Ring, Retaining	1	53		Motor, 2hp, 3ph	1
5	5510145	Gear (32T)	1		5517349	220V	
6	5510146	Key	1		5517350	440V	
7	5510147	Shaft, Drive (13T)	1	54	5510194	Washer	4
8	5510148	Bearing, Ball	1	55	5510195	Screw	4
9	5510149	Ring, Retaining	1	56	5510204	Switch, E-stop	1
10	5510150	Bearing, Ball	1	56-1	5510197	Proximity Switch, Speed	1
11	5510151	Ring, Retaining	1	56-2	5510198	Bracket, Proximity Switch	1
12	5510153	Gear (55T)	1	57	5510201	Light, Indicator	1
13	5510152	Screw, Set	1	59	5510199	Switch, Pump Selector	1
14	5510155	Spring	1	60	5510200	Switch, Forward/Reverse	1
15	5510154	Ball, Steel	1	61	5510196	Potentiometer, Speed Control	1
16	5510159	Key	1	62	5510202	Switch, Pushbutton, Green	1
17	5517333	Plug, Drain, 3/8 NPT	1	63	5510206	Screw	4
18	5510158	Gear (18T)	1	64	5517351	Panel, Control	1
20	5510160	Key	1	64-1	5517352	Bracket, Plate	1
21	5510161	Shaft, Mid	1	65	5510209	Screw, Pan Head	2
22	5510162	Key	1	66	5510210	Cover, Oil Filler	1
23	5510163	Ring, Retaining	2	67	5517353	Cover, Pulley	1
24	5510164	Bearing, Ball	1	67-1	5517354	Plate, Top	1
25	5510165	Pin 1	1	67-2	5510213	Plate, Fixed	1
26	5510166	Bar	1	67-3	5517355	Plate, Fixed	1
26-1	5517334	Ring	1	67-4	5510215	Screw, Pan Head	2
27	5510167	Nut, Hex	1	67-5	5517356	Screw	2
28	5510168	Washer, Spring	1	67-6	5517357	Screw	2
29	5510169	Block, Speed Change	1	67-7	5517358	Washer	6
30	5510170	Bar, Gear	1	67-8	5510214	Screw, Pan Head	4
31	5510171	Screw, Set	1	68	5510216	Washer, Spring	2
32	5517335	Lever, Speed	1	69	5510217	Screw	2
33	5517336	Ring, Retaining	1	70	5517359	Enclosure (w/door & latch)	1
34	5510173	Seal, Oil	1	71	5510219	Screw	4
35	5510177	Shaft, Gear (18T)	1	72	5510220	Bolt	4
36	5517337	Nut, Hex	1	73	5517360	Washer	4
37	5517338	Screw, Cap	1	74	5510222	Relief, Cable	1
38	5510178	Screw, Set	1	74-1	5517361	Relief, Cable	1
39	5517339	Cover (Top), Gearbox	1	75	5510223	Cable, Electric	1
40	5510180	Fitting, Fill, Oil	1	75-1	5517362	Cable, Electric	1
40-1	5517340	Tube, Fill	1	76	5510224	Cover, Window	1
41	5510181	Seal, Oil	1	77	5517363	Panel, Component Mounting	1
42	5510182	Bolt	1	79	5510227	Board, Insulation	1
43	5510183	Seal, Oil	1	80	5510228	Fuse Block	1
44	5510184	Seal, Oil	1	81	5510229	Transformer	1
44-1	5517341	Ring, Retaining	1	82	5517364	Washer	4
45	5510185	Screw, Set	1	83	5517365	Screw, Pan Head	4
46	5510186	Pulley, Drive	1	84	5517366	Screw, Cap	4
47	5517342	Pulley, Spindle, 48T	1	84-1	5517367	Washer, Lock	4
48	5517343	Belt, 720x8	1	84-2	5517368	Nut, Hex	4
49	5510189	Bolt, Hex, M6x30	2	85		Inverter, Delta, M-type	1
49-1	5517344	Screw, Flat Head, M5x10	2		5510233	220V, 3ph	
50	5517345	Washer, Flat, M6	2		5512670	440V, 3ph	
51	5517346	Bracket	1				

Parts Listing — Drill Head — Inverter Speed Control (Models 2232AC and 2234AC)

Item No.	Part Number	Description	Qty
85-1	5517371	Washer, Flat	4
85-2	5517372	Screw	4
86	5517373	Sub-Panel	1
86-1	5517374	Screw	4
87	5510235	Terminal Block	1
88	5517375	Rail, Mounting	1
89	5510237	Contactor	1
89-1	5510238	Relay	1
90	5510240	Relay	1
94	5510242	Screw	2
95	5510243	Screw	2
96	5510244	Microswitch	2
97	5510245	Bracket, Microswitch	2
98	5510246	Rod, Microswitch Support	1
99		Electrical Enclosure Complete	1
	5514648	220V, 3Ph	
	5514649	440V 3Ph	
105		LED Display	1
	5513519	115/220 LED Display	
	5513736	220/440 LED Display	
106	5513683	Screw, Cap	2
107	5515285	Cap, Spindle	1

Exploded View — Spindle Components (All Models)

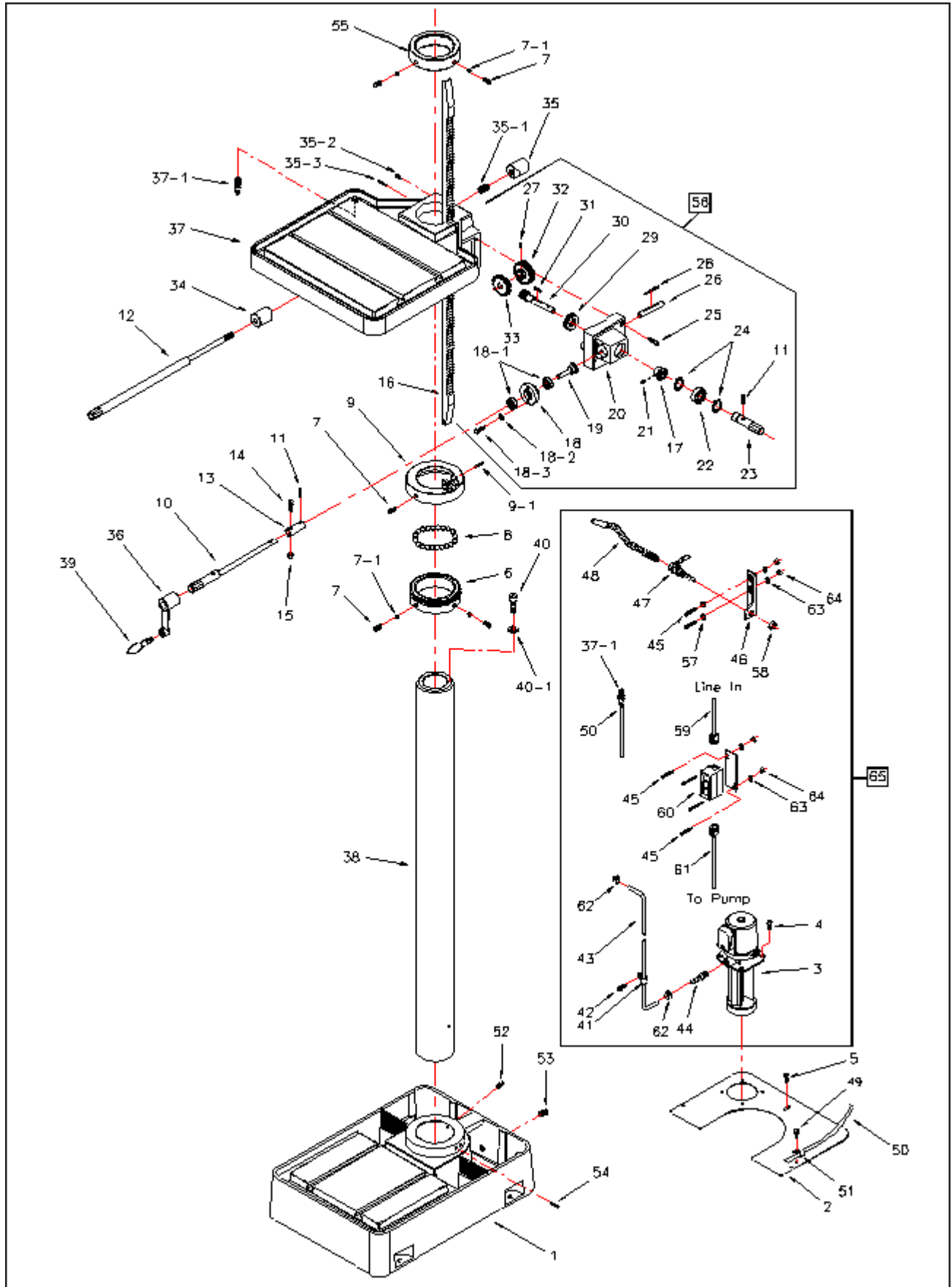


Parts Listing — Spindle Components (All Models)

Item No.	Part Number	Description	Qty
1	5517332	Casting, Head	1
2	5517376	Bolt, Hex, Shoulder	2
2-1	5517377	Spring	2
3	5517378	Rod, Cam Lock	2
4	5510250	Nut, Hex	2
5	5510251	Wrench, Hex Head	1
7	5510252	Screw, Set	1
8	5517379	Washer, External Tooth	1
10	5510253	Spindle	1
11	5510254	Bearing, Ball	2
12	5510255	Spacer	1
14	5510256	C-Ring	1
15	5510258	Screw, Set	1
16	5510259	Pin, Roll	1
26	5510261	Screw, Socket Head	1
27	5510262	Washer	1
28	5510263	Container, (includes #29)	1
29	5510263	Spring, Return	1
30	5510265	Screw, Socket Head	3
31	5510266	Seat, Spring	1
32	5510267	Pin, Spring	1
36	5513770	Washer, Rubber	1
37	5513771	Band, Quill	1
37A	5517380	Bolt, Hex, Shoulder	1
37B	5517381	Washer, Flat	2
37C	5517382	Nut, Hex	1
38	5513772	Nut, Lock	2
39	5513773	Bearing, Ball	1
40	5513774	Pin, Drift	1
41	5510268	Quill	1
42	5510269	Bearing, Ball	1
43	5510270	Spindle	1
44	5510271	Seal, Oil	1
45	5510272	Nut	1
46	5510273	Rod, Depth	1
48	5510274	Nut	1
49	5510275	Nut	1
50	5510276	Retainer	1
51	5510277	Pin, Spring	1
53	5510278	Scale, Depth	1
58	5510279	Screw, Round Head Cap	4
60	5510280	Key	1
61	5510281	Screw, Socket Head	3
62	5510282	Key	1
63	5510283	Shaft, Feed	1
66	5510284	Seat, Feed Shaft	1

Item No.	Part Number	Description	Qty
67	5510285	Hub	1
68	5510286	Spoke	3
68A	5513515	Pickup, Magnetic	1
68B	5513687	Screw, Pan Head	2
69	5510287	Knob	3
69A	5517383	Plate, Adjustable	1
69B	5517384	Bracket, Mag. Pickup	1
69C	5513689	Screw, Cap	1
69D	5517385	Washer, Flat	1
69E	5517386	Nut, Hex	1
70	5517387	Screw	2
71	5511849	Cover	1
72	5513354	Screw	4

Exploded View - Table and Base (All Models)



Parts List - Table and Base (All Models)

Item No.	Part Number	Description	Qty
1	5510288	Base	1
2	5510289	Plate, Coolant Cover	1
3	5510456	Pump, Coolant, 115V, 1P	1
	5512103	Pump, Coolant, 220/440V 3P	1
4	5510291	Bolt, Hex	4
5	5517388	Screw, Pan Head	3
6	5510293	Seat, Ball	1
7	5510294	Screw, Set	4
7-1	5517389	Block, Brass	4
8	5510295	Bearing, Ball	1
9	5510296	Ring, Lock	1
9-1	5517390	Pin	1
10	5516859	Shaft, Table Raiser	1
11	5510298	Pin, Spring	4
12	5516858	Shaft, Table Clamp	1
13	5516860	Coupling, Table Raiser	1
14	5510300	Screw, Socket Head	1
15	5510301	Nut	1
16	5510302	Rack	1
17	5514663	Gear, Bevel, Large	1
18	5517391	Housing, Bearing	1
18-1	5517392	Bearing, Ball, 620ZZ	2
18-2	5517393	Washer	2
18-3	5510303	Screw, Cap	2
19	5510304	Gear, Bevel, Small	2
20	5510305	Bracket Cover	1
21	5510306	C-Ring	1
22	5510307	Bearing, Ball	1
23	5510308	Shaft	1
24	5510309	C-Ring	2
25	5510310	Screw, Socket Head	4
26	5510311	Shaft	1
27	5517395	Screw, Set	1
28	5510313	Key	1
29	5510314	Bearing	1
30	5510315	Worm, Table Raise	1
31	5510316	Key	1
32	5510317	Gear, Worm	1
33	5510318	Gear	1
34	5510319	Lock, Cam, Front	1
35	5510320	Lock, Cam, Rear	1
35-1	5517396	Spring	1
35-2	5517397	Screw, Cap, M6x25	1
35-3	5517398	Pin, 5x25	2
36	5510321	Crank, Table Raise	2
37	5510322	Table	1
37-1	5517399	Barb, Hose, 1/2" (return)	1
38	5510323	Column	1
39	5510324	Handle, Table Raise	1
40	5510325	Screw, Hex Head	1
40-1	5510334	Washer	1

Item No.	Part Number	Description	Qty
41	5510326	Clamp	1
42	5510327	Screw, Pan Head	1
43	5510328	Hose, Vinyl, Clear, 3/8"	1
44	5510329	Barb, Hose, 3/8" (supply)	1
45	5512112	SHCS, #10-32 x 1"	4
46	5510331	Bracket, Mounting	1
47	5510332	Valve	1
48	5510333	Nozzle, Flexible	1
49	5517400	Screw, Pan Head	1
50	5517401	Hose, Vinyl, Clear, 1/2"	1
51	5517402	Clamp, Hose	1
52	5517403	Screw, Set, 1/2 x 1	2
53	5517404	Plug, Drain, 3/8 NPT	1
54	5517405	Pin, Spring, 4x50	1
55	5517406	Collar, Rack	1
56	5513932	Assembly, Table Raiser	1
57	9057451	Washer, Flat, #10	2
58	5517488	Nut, Hex, 1/2"	1
59	5517489	Cord, Power	1
60	5517490	Assy., Switch	1
61		Cord, Pump	1
	5517491	1 Phase	
	5517492	3 Phase	
62	5517493	Clamp, Hose, Rad. Type	2
63	9058341	Washer, Lock, #10	4
64	5517628	Nut, Hex, #10-32	4
65		Coolant System Complete	1
	5512104	1/8 HP, 115/220V, 1 Phase	
	5508071	1/8 HP, 220/440V, 3 Phase	