

HV600 BYPASS			POWER				SIGNAL			CONTROL		EXTERNAL POWER	GROUND			NEUTRAL
			105°C PVC, FOR 18 AWG TO 350 MCM (BLACK) SEE NOTE 5				UWR-0639	UWR-1554	UWR-1555	M3508 1__0001	M3508 1__0009	M3508 1180006	M3508_____			M3508 1__0004
INPUT VOLTS	DRIVE PART NO. HV60U__ ----	HV600 STD. BASE. NO.	INPUT WIRING	OUTPUT WIRING		TO CPT (F_)/(H_)	JUMPER WIRE NO. A_, F_, H_, R_, S_, _V, 1-99 (BLUE)	2 COND. 22 AWG SHIELDED (SEE NOTE 3) WIRE NO. D+, D-	TO SPEED POT R1 3 COND. 22 AWG SHIELDED (SEE NOTE 4) WIRE NO. +V, A1, AC	TO CPT(X2) WIRE NO. 100-109 (WHITE)	WIRE NO. M_, 110-599 (RED)	WIRE NO. 600-799 (YELLOW)	1140004	1180004	1__0004 (GREEN)	TBN1(1) TO PANEL (GREEN)
			WIRE NO. _L_	OUTPUT AMPS	WIRE NO. _T_	WIRE NO. _L_							CPT(X2), A2 TO PANEL, CABINET, DOOR,FAN (GRN)	SPACE HEATER (GRN)	DRIVE  TO PANEL (GRN)	
208	2011	D002	14	2.4	14	14	22	22	22	SEE NOTE 6	SEE NOTE 7	18	14	18	14	8
208	2011	D003	14	3.5	14	14	22	22	22			18	14	18	14	8
208	2011	D004	14	4.6	14	14	22	22	22			18	14	18	14	8
208	2011	D007	14	7.5	14	14	22	22	22			18	14	18	10	8
208	2011	D010	14	10.6	14	14	22	22	22			18	14	18	10	8
208	2017	D016	12	16.7	12	14	22	22	22			18	14	18	10	8
208	2024	D024	10	24.2	10	14	22	22	22			18	14	18	8	8
208	2031	D030	8	30.8	8	14	22	22	22			18	14	18	8	8
208	2046	D046	8	46.2	8	14	22	22	22			18	14	18	6	8
208	2059	D059	6	59.4	6	14	22	22	22			18	14	18	6	6
208	2075	D074	4	74.8	4	14	22	22	22			18	14	18	6	6
208	2088	D088	2	88	2	14	22	22	22			18	14	18	6	6
208	2114	D114	1	114	2	14	22	22	22			18	14	18	6	6
208	2143	D143	2/0	143	1/0	14	22	22	22			18	14	18	4	1/0
208	2169	D169	3/0	169	2/0	14	22	22	22			18	14	18	4	1/0
208	2211	D211	(2) 1/0	211	(2) 1/0	14	22	22	22			18	14	18	2	1/0
208	2273	D273	(2) 1/0	273	(2) 1/0	14	22	22	22			18	14	18	2	1/0
240	2011	A002	14	2.2	14	14	22	22	22	SEE NOTE 6	SEE NOTE 7	18	14	18	14	8
240	2011	A003	14	3.2	14	14	22	22	22			18	14	18	14	8
240	2011	A004	14	4.2	14	14	22	22	22			18	14	18	14	8
240	2011	A006	14	6.8	14	14	22	22	22			18	14	18	10	8
240	2011	A009	14	9.6	14	14	22	22	22			18	14	18	10	8
240	2017	A015	12	15.2	12	14	22	22	22			18	14	18	10	8
240	2024	A022	10	22	10	14	22	22	22			18	14	18	8	8
240	2031	A028	8	28	10	14	22	22	22			18	14	18	8	8
240	2046	A042	8	42	8	14	22	22	22			18	14	18	6	8
240	2059	A054	6	54	6	14	22	22	22			18	14	18	6	6
240	2075	A068	4	68	4	14	22	22	22			18	14	18	6	6
240	2088	A080	4	80	4	14	22	22	22			18	14	18	6	6
240	2114	A104	2	104	2	14	22	22	22			18	14	18	6	6
240	2143	A130	1/0	130	1	14	22	22	22			18	14	18	4	1/0
240	2169	A154	2/0	154	2/0	14	22	22	22			18	14	18	4	1/0
240	2211	A192	3/0	192	3/0	14	22	22	22			18	14	18	2	1/0
240	2273	A248	(2) 1/0	248	(2) 1/0	14	22	22	22			18	14	18	2	1/0

NOTES:

1. THE WIRE GAUGE IN THIS TABLE HAS BEEN SELECTED PER UL 508A TABLE 15.1, TABLE 28.1 AND TABLE 38.1.
2. FOR GROUND WIRE LARGER THAN 1/0, USE BLACK POWER WIRE AND ADD GREEN ELECTRICAL TAPE AT EACH END.
3. USE CLEAR CONDUCTOR FOR WIRE D- AND USE BLACK CONDUCTOR FOR WIRE D+
4. STUB AND ADD SHRINK TUBING OVER THE SHIELD ON THE SPEED POT R1 SIDE OF THE SHIELDED CABLE.
5. USE WIRE AS FOLLOWS:

<u>GAUGE</u>	<u>WIRE NUMBER</u>	<u>GAUGE</u>	<u>WIRE NUMBER</u>
18	UWR-0238	3	UWR-0396
16	UWR-0239	2	UWR-0246
14	UWR-0240	1	UWR-0247
12	UWR-0241	1/0	UWR-0248
10	UWR-0242	2/0	UWR-0249
8	UWR-0243	3/0	UWR-0250
6	UWR-0244	4/0	UWR-0251
4	UWR-0245	250 kcmil	UWR-0660
		350 kcmil	UWR-0587

6. USE 18 GAUGE WHITE FOR WIRING TO CPT(X2) OF A CIRCUIT CONTAINING NO FUSE.
USE 18 GAUGE WHITE FOR WIRING TO CPT(X2) OF A CIRCUIT CONTAINING A FUSE RATED 7 AMPS, OR LESS.
USE 16 GAUGE WHITE FOR WIRING TO CPT(X2) OF A CIRCUIT CONTAINING A FUSE RATED GREATER THAN 7 AMPS, AND LESS THAN OR EQUAL TO 10 AMPS.
USE 14 GAUGE WHITE FOR WIRING TO CPT(X2) OF A CIRCUIT CONTAINING A FUSE RATED GREATER THAN 10 AMPS, AND LESS THAN OR EQUAL TO 15 AMPS.
7. USE 18 GAUGE RED FOR WIRING CONTAINING NO FUSE.
USE 18 GAUGE RED FOR WIRING CONTAINING A FUSE RATED 7 AMPS, OR LESS.
USE 16 GAUGE RED FOR WIRING CONTAINING A FUSE RATED GREATER THAN 7 AMPS, AND LESS THAN OR EQUAL TO 10 AMPS.
USE 14 GAUGE RED FOR WIRING CONTAINING A FUSE RATED GREATER THAN 10 AMPS, AND LESS THAN OR EQUAL TO 15 AMPS.

REVISIONS				
Rev	DESCRIPTION	ECO#	DRAWN BY	DATE
06	UPDATED TBN1 WIRE VALEU FOR B240	15525	MD	09/02/26
05	REMOVED UWR-0641 AND ADJUSTED VALUES	12805	KJL	01/18/23
04	CHANGE/REMOVE 3 AWG WIRE	12646	MDK	10/18/22

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	CHECKED: K. PEOPLES	DATE: 8/17/20			
	TECH:	DATE:			
	APPROVED: R. JENSEN	DATE: 8/18/20	SIZE: C	REVISION: 06	PAGE: 1 of 2
	ORIGINAL DESIGN: N. LAWS	DATE: 8/13/20	DRAWING #: UDE00642		

HV600 BYPASS			POWER				SIGNAL			CONTROL		EXTERNAL POWER	GROUND			NEUTRAL	
			105°C PVC, FOR 18 AWG TO 350 MCM (BLACK) SEE NOTE 5				UWR-0639	UWR-1554	UWR-1555	M3508 1__0001	M3508 1__0009	M3508 1180006	M3508_-----			M3508 1__0004	
INPUT VOLTS	DRIVE PART NO. HV60U_ ----	HV600 STD. BASE. NO.	INPUT WIRING	OUTPUT WIRING		TO CPT (F_)/(H_)	JUMPER WIRE NO. A_, F_, H_, R_, S_, _V, 1-99 (BLUE)	2 COND. 22 AWG SHIELDED (SEE NOTE 3) WIRE NO. D+, D-	TO SPEED POT R1 3 COND. 22 AWG SHIELDED (SEE NOTE 4) WIRE NO. +V, A1, AC	TO CPT(X2) WIRE NO. 100-109 (WHITE)	WIRE NO. M_, 110-599 (RED)	WIRE NO. 600-799 (YELLOW)	1140004	1180004	1__0004 (GREEN)	TBN1(1) TO PANEL (GREEN)	
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480	4005	B1P1	14	1.1	14	14	22	22	22	SEE NOTE 6	SEE NOTE 7		18	14	18	14	8
480	4005	B001	14	1.6	14	14	22	22	22				18	14	18	14	8
480	4005	B002	14	2.1	14	14	22	22	22				18	14	18	14	8
480	4005	B003	14	3.4	14	14	22	22	22				18	14	18	14	8
480	4005	B004	14	4.8	14	14	22	22	22				18	14	18	14	8
480	4008	B007	14	7.6	14	14	22	22	22				18	14	18	10	8
480	4011	B011	14	11	14	14	22	22	22				18	14	18	10	8
480	4014	B014	14	14	14	14	22	22	22				18	14	18	10	8
480	4021	B021	10	21	10	14	22	22	22				18	14	18	8	8
480	4027	B027	10	27	10	14	22	22	22				18	14	18	8	8
480	4034	B034	8	34	8	14	22	22	22				18	14	18	8	8
480	4040	B040	8	40	8	14	22	22	22				18	14	18	6	8
480	4052	B052	6	52	6	14	22	22	22				18	14	18	6	6
480	4065	B065	4	65	6	14	22	22	22				18	14	18	6	6
480	4077	B077	4	77	4	14	22	22	22				18	14	18	6	6
480	4096	B096	2	96	2	14	22	22	22				18	14	18	6	6
480	4124	B124	1	124	1	14	22	22	22				18	14	18	4	1/0
480	4156	B156	2/0	156	2/0	14	22	22	22				18	14	18	4	1/0
480	4180	B180	3/0	180	3/0	14	22	22	22				18	14	18	4	1/0
480	4240	B240	(2) 1/0	240	(2) 1/0	14	22	22	22				18	14	18	2	1/0
480	4302	B302	(2) 2/0	302	(2) 2/0	14	22	22	22				18	14	18	1	2/0

NOTES:

- THE WIRE GAUGE IN THIS TABLE HAS BEEN SELECTED PER UL 508A TABLE 15.1, TABLE 28.1 AND TABLE 38.1.
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16	UWR-0239	2	UWR-0246
14	UWR-0240	1	UWR-0247
12	UWR-0241	1/0	UWR-0248
10	UWR-0242	2/0	UWR-0249
8	UWR-0243	3/0	UWR-0250
6	UWR-0244	4/0	UWR-0251
4	UWR-0245	250 kcmil	UWR-0660
		350 kcmil	UWR-0587

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