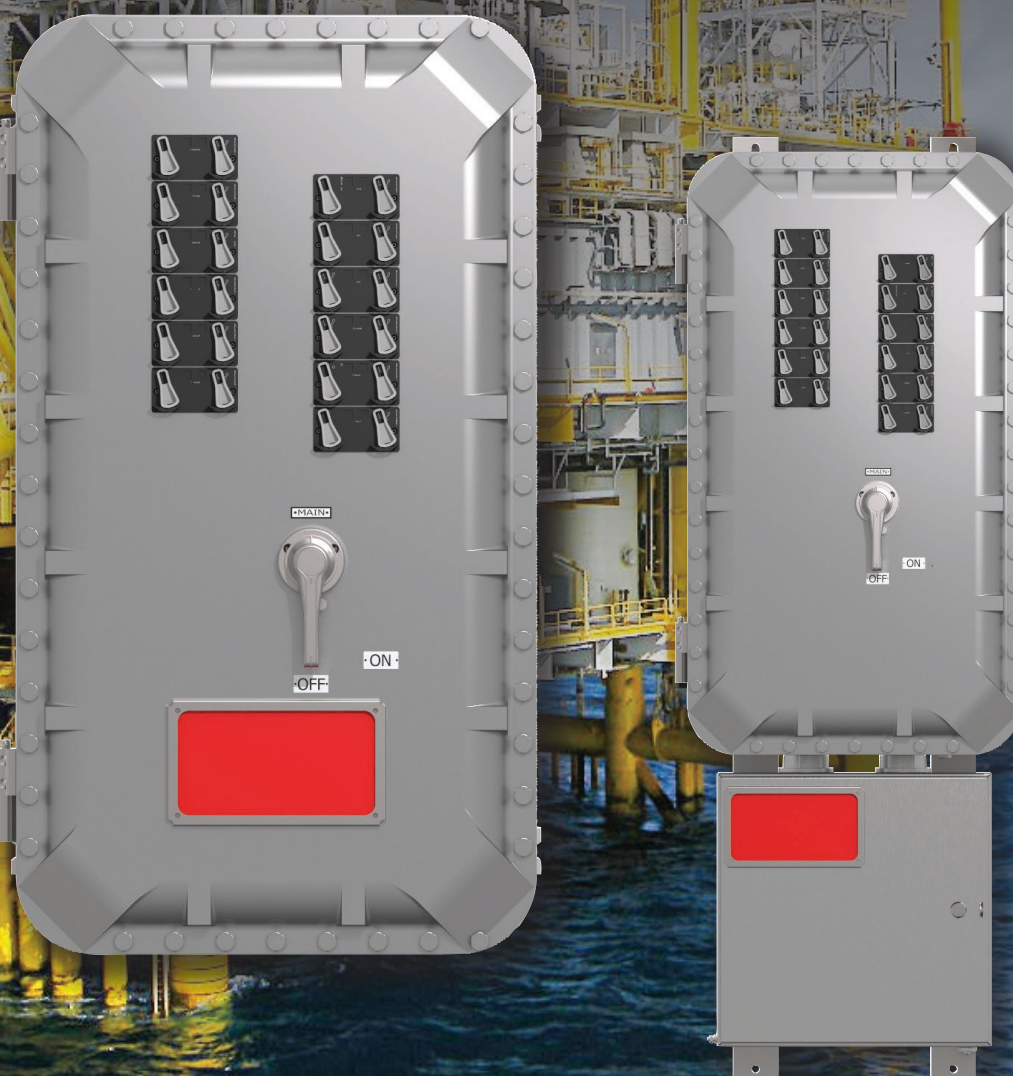


EXPB2 Series

Small Power Panelboard





EXPB2 SMALL POWER PANELBOARD

EXPB2™



EXPB
Panelboard

NEC / CEC Certifications

NEC / CEC Certifications
Class I, Groups B, C & D
Class I, Zone 1, AEx d IIB+H2
Class II, Groups E, F & G
Class III
Type 3, 4, 4X



Ta = -60°C to +70°C (UL & CSA) T5 or T6
Files E83969
File LR11713

NOTE: Non-factory seal is available as QUAD labeled.



II 2 GD CE 0518
PTB 07 ATEX 1024 (Enclosure with
Controls)
IEC Ex 07.0022U
IEC Ex 07.0023

FEATURES-SPECIFICATIONS

Features

- All hardware is stainless steel, cover bolts are quick release Tri-Lead.
- All circuit breaker are pad lockable in the "ON" or "OFF" position for up to three padlocks (to allow ease of lock out - tag out capabilities).
- Operating Temperature of 0°C to +40°C
- Copper bus panelboard interiors are standard with dead front trim plate for safety.
- Available as non-factory sealed or factory sealed.
- Factory sealed has a stainless steel wiring chamber set up for bottom entry.
- Line and Load connections are pre-wired for ease of installation on factory sealed version.

Materials

Breaker Enclosure

- Cast copper free aluminum (less than 4/10th of 1%). Finish aluminum wet lacquer paint.
- Main Breaker Handle: Copper-free aluminum.
- Flange Gasket "O" Ring: Bunna-N-Nitrile.
- Branch Breaker Operators: Valox Thermoplastic Polyester handle molded onto 316 stainless steel shaft with neoprene "O" ring.
- Hinges: Copper-free aluminum with stainless steel pin and hardware.
- Mounting Lugs: 1/4" thick aluminum.

Wiring Enclosure

- Type 316 Stainless Steel, 14 Gauge. Killark USF style enclosure suitable for direct entry via hub or cable gland knockouts. Cable gland plates are available upon request.
- Quarter turn 316 stainless steel latch.
- Sloped cover opening to eliminate ice build-up.
- Concealed hinge.

- External/Internal earthing stud.
- Type 4X one piece gasket.
- Ground bus.
- Neutral bus, optional if required.

Electrical Rating

- 277/480 Wye VAC, 3 Phase, 3 or 4 Wire. US
- 347/600 Wye VAC, 3 Phase, 3 or 4 Wire. Canada
- 50/60Hz Frequency
- 14K AIC Standard.
- 35K AIC Optional.
- 65K AIC Optional.

MODIFICATIONS

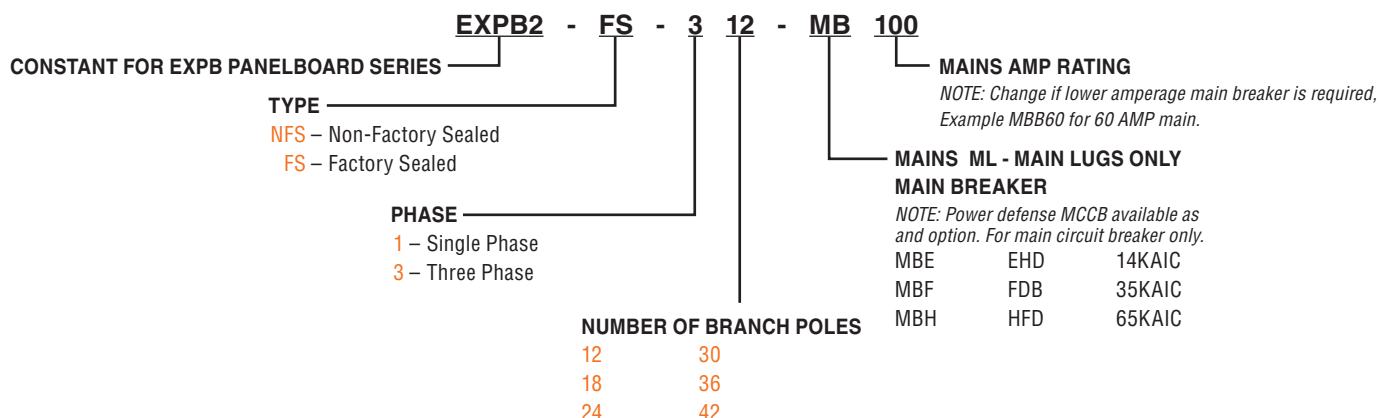
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-ATEX	ATEX IECEx Drain & breather installed. Groups B & Ex d IIB+H2
SU3B-4X	Type 4X drain D & breather installed. Group B, C, D Type 4X
SU2	Install hinges (8x10 and smaller enclosures)
SU9	Special paint finish
SU14	Fungus proofing of enclosures
SU93	Do not paint enclosures

DISTRIBUTION

EXPB2 SMALL POWER PANELBOARD



CATALOG LOGIC



EXPB2 FACTORY SEALED POWER PANELBOARD

MAIN LUG ONLY

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURE	MAIN WIRE RANGE	ENCLOSURE EXB	ENCLOSURE TERMINAL BOX
SINGLE PHASE 277/480Y VAC 125 VDC	12	100	EXPB2-FS-112-ML100	#14AWG-2/0AWG	EXB-18248 N34	USF181808
	18	225	EXPB2-FS-118-ML225	#6AWG-350MCM	EXB-18248 N34	USF181808
	24	225	EXPB2-FS-124-ML225	#6AWG-350MCM	EXB-18248 N34	USF181808
	30	225	EXPB2-FS-130-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
	36	225	EXPB2-FS-136-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
	42	225	EXPB2-FS-142-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
THREE PHASE 277/480Y VAC 125 VDC	12	100	EXPB2-FS-312-ML100	#14AWG-2/0AWG	EXB-18248 N34	USF181808
	18	225	EXPB2-FS-318-ML225	#6AWG-350MCM	EXB-18248 N34	USF181808
	24	225	EXPB2-FS-324-ML225	#6AWG-350MCM	EXB-18248 N34	USF181808
	30	225	EXPB2-FS-330-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
	36	225	EXPB2-FS-336-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808
	42	225	EXPB2-FS-342-ML225	#6AWG-350MCM	EXB-18368 N34	USF181808

MAIN CIRCUIT BREAKER (MCCB)

ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN CIRCUIT BREAKER		CATALOG NUMBER BASIC ENCLOSURE	INCOMING MAIN WIRE RANGE	ENCLOSURE EXB	ENCLOSURE TERMINAL BOX
		FRAME	AMPS				
SINGLE PHASE 277/480Y VAC 125 VDC	12	EHD	100	EXPB2-FS-112-MB100	#14AWG - 1/0AWG	EXB-18248 N34	USF181808
	18	FD	225	EXPB2-FS-118-MB225	#4AWG - 4/0AWG	EXB-18248 N34	USF181808
	24	FD	225	EXPB2-FS-124-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	30	FD	225	EXPB2-FS-130-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	36	FD	225	EXPB2-FS-136-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	42	FD	225	EXPB2-FS-142-MB225	#4AWG - 4/0AWG	EXB-24368 N34	USF242408
THREE PHASE 277/480Y VAC 125 VDC	12	EHD	100	EXPB2-FS-312-MB100	#14AWG - 1/0AWG	EXB-18248 N34	USF181808
	18	FD	225	EXPB2-FS-318-MB225	#4AWG - 4/0AWG	EXB-18248 N34	USF181808
	24	FD	225	EXPB2-FS-324-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	30	FD	225	EXPB2-FS-330-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	36	FD	225	EXPB2-FS-336-MB225	#4AWG - 4/0AWG	EXB-18368 N34	USF181808
	42	FD	225	EXPB2-FS-342-MB225	#4AWG - 4/0AWG	EXB-24368 N34	USF242408



EXPB2 SMALL POWER PANELBOARD

EXPB2 NON-FACTORY SEALED POWER PANELBOARD

MAIN LUG ONLY

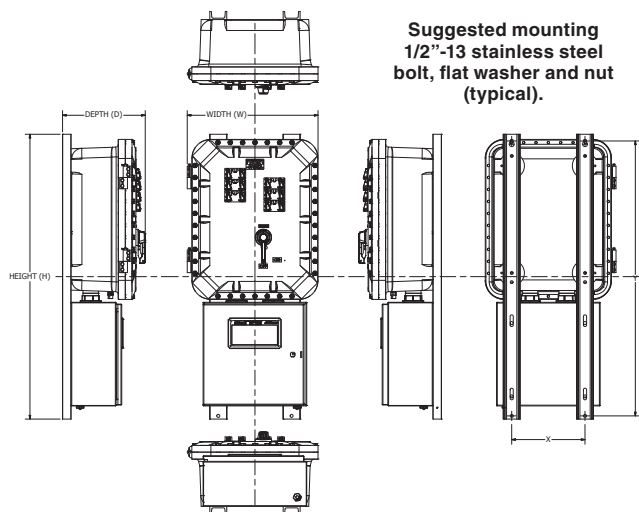
ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN LUG RATING AMPS	CATALOG NUMBER BASIC ENCLOSURE	MAIN WIRE RANGE	ENCLOSURE EXB
SINGLE PHASE 277/480Y VAC 125 VDC	12	100	EXPB2-NFS-112-ML100	#14AWG-2/0	EXB-18248 N34
	18	225	EXPB2-NFS-118-ML225	#6AWG-350MCM	EXB-18248 N34
	24	225	EXPB2-NFS-124-ML225	#6AWG-350MCM	EXB-18248 N34
	30	225	EXPB2-NFS-130-ML225	#6AWG-350MCM	EXB-18368 N34
	36	225	EXPB2-NFS-136-ML225	#6AWG-350MCM	EXB-18368 N34
	42	225	EXPB2-NFS-142-ML225	#6AWG-400MCM	EXB-18368 N34
THREE PHASE 277/480Y VAC 125 VDC	12	100	EXPB2-NFS-312-ML100	#14AWG-2/0	EXB-18248 N34
	18	225	EXPB2-NFS-318-ML225	#6AWG-350MCM	EXB-18248 N34
	24	225	EXPB2-NFS-324-ML225	#6AWG-350MCM	EXB-18248 N34
	30	225	EXPB2-NFS-330-ML225	#6AWG-350MCM	EXB-18368 N34
	36	225	EXPB2-NFS-336-ML225	#6AWG-350MCM	EXB-18368 N34
	42	225	EXPB2-NFS-342-ML225	#6AWG-400MCM	EXB-18368 N34

MAIN CIRCUIT BREAKER (MCCB)

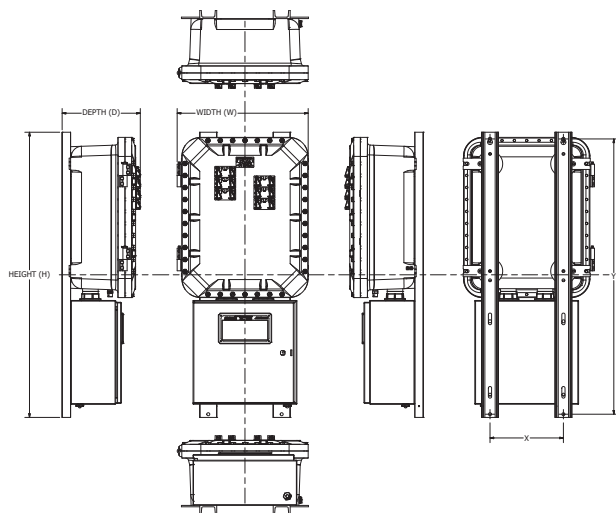
ELECTRICAL RATING	NUMBER OF BRANCH POLES	MAIN CIRCUIT BREAKER		CATALOG NUMBER BASIC ENCLOSURE	INCOMING MAIN WIRE RANGE	ENCLOSURE EXB
		FRAME	AMPS			
SINGLE PHASE 277/480Y VAC 125 VDC	12	EHD	100	EXPB2-NFS-112-MB100	#14AWG - 1/0	EXB-18248 N34
	18	FD	225	EXPB2-NFS-118-MB225	#4AWG - 4/0	EXB-18308 N34
	24	FD	225	EXPB2-NFS-124-MB225	#4AWG - 4/0	EXB-18368 N34
	30	FD	225	EXPB2-NFS-130-MB225	#4AWG - 4/0	EXB-18368 N34
	36	FD	225	EXPB2-NFS-136-MB225	#4AWG - 4/0	EXB-24368 N34
	42	FD	225	EXPB2-NFS-142-MB225	#4AWG - 4/0	EXB-24368 N34
THREE PHASE 277/480Y VAC 125 VDC	12	EHD	100	EXPB2-NFS-312-MB100	#14AWG - 1/0	EXB-18248 N34
	18	FD	225	EXPB2-NFS-318-MB225	#4AWG - 4/0	EXB-18368 N34
	24	FD	225	EXPB2-NFS-324-MB225	#4AWG - 4/0	EXB-24368 N34
	30	FD	225	EXPB2-NFS-330-MB225	#4AWG - 4/0	EXB-24368 N34
	36	FD	225	EXPB2-NFS-336-MB225	#4AWG - 4/0	EXB-24368 N34
	42	FD	225	EXPB2-NFS-342-MB225	#4AWG - 4/0	EXB-24368 N34

DISTRIBUTION

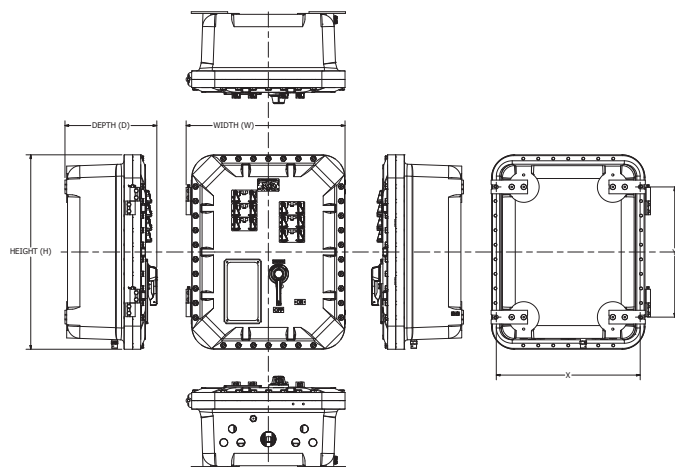
EXPB2 SMALL POWER PANELBOARD



EXPB2FS-MB							
CIRCUITS	EXB	USF	OVERALL			MOUNTING	
			HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18248	USF-18188	50.5 (1283)	23.19 (589)	14.66 (372)	13 (330)	48.75 (1238)
18	EXB-18248	USF-18188	50.5 (1283)	23.19 (589)	14.66 (372)	13 (330)	48.75 (1238)
24	EXB-18368	USF-18188	63 (1600)	23.19 (589)	15.15 (385)	13.25 (337)	61.75 (1568)
30	EXB-18368	USF-18188	63 (1600)	23.19 (589)	15.31 (389)	13.25 (337)	61.75 (1568)
36	EXB-18368	USF-18188	63 (1600)	23.19 (589)	15.31 (389)	13.25 (337)	61.75 (1568)
42	EXB-24368	USF-24248	68.53 (1741)	30.06 (764)	15.25 (387)	19.56 (497)	67 (1702)



EXPB2FS-MLO							
CIRCUITS	EXB	USF	OVERALL			MOUNTING	
			HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18248	USF-18188	50.5 (1283)	23.19 (589)	13.84 (352)	13 (330)	48.75 (1238)
18	EXB-18248	USF-18188	50.5 (1283)	23.19 (589)	13.84 (352)	13 (330)	48.75 (1238)
24	EXB-18248	USF-18188	50.5 (1283)	23.19 (589)	13.84 (352)	13 (330)	48.75 (1238)
30	EXB-18368	USF-18188	63 (1600)	23.19 (589)	14.49 (368)	13.25 (337)	61.75 (1568)
36	EXB-18368	USF-18188	63 (1600)	23.19 (589)	14.49 (368)	13.25 (337)	61.75 (1568)
42	EXB-18368	USF-18188	63 (1600)	23.19 (589)	14.49 (368)	13.25 (337)	61.75 (1568)



EXPB2NFS-MB						
CIRCUITS	EXB SIZE	OVERALL			MOUNTING	
		HEIGHT (H)	WIDTH (W)	DEPTH (D)	X	Y
12	EXB-18248	28.38 (721)	23.19 (589)	13.41 (341)	21 (533)	19 (483)
18	EXB-18308	35.38 (889)	22.38 (568)	14.01 (356)	21.25 (540)	26.50 (673)
24	EXB-18368	40.38 (1026)	23.19 (589)	14.06 (357)	21.25 (540)	31.5 (800)
30	EXB-18368	40.38 (1026)	23.19 (589)	14.06 (357)	21.25 (540)	31.5 (800)
36	EXB-24368	41.25 (1048)	30.06 (764)	14.01 (356)	27.56 (700)	31.56 (802)
42	EXB-24368	41.25 (1048)	30.06 (764)	14.01 (356)	27.56 (700)	31.56 (802)



EXPB2 SMALL POWER PANELBOARD

U.S. BRANCH CIRCUIT BREAKERS

NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GHB 277/480Y VAC 125 VDC 14KAIC @ 277VAC	HGHB 277 VAC 125 VDC 25KAIC @ 277 VAC	GHBGFEP 277 VAC 1P+N, 30MA EPD 14KAIC @ 277 VAC	NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GHB 277/480Y VAC 125/259 VDC 14KAIC @ 480Y VAC	NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GHB 277/480Y VAC 125/259 VDC 14KAIC @ 480Y VAC
(1) ONE POLE	SPARE (HANDLE ONLY)	FUT1000	FUT1000	FUTEPD1	(2) TWO POLE	SPARE (HANDLE ONLY)	FUT2000	(3) THREE POLE	SPARE (HANDLE ONLY)	FUT3000
	15	GHB1015	HGHB1015	GHBGFEP1015		15	GHB2015		15	GHB3015
	20	GHB1020	HGHB1020	GHBGFEP1020		20	GHB2020		20	GHB3020
	25	GHB1025	HGHB1025			25	GHB2025		25	GHB3025
	30	GHB1030	HGHB1030	GHBGFEP1030		30	GHB2030		30	GHB3030
	35	GHB1035				35	GHB2035		35	GHB3035
	40	GHB1040		GHBGFEP1040		40	GHB2040		40	GHB3040
	45	GHB1045				45	GHB2045		45	GHB3045
	50	GHB1050		GHBGFEP1050		50	GHB2050		50	GHB3050
	60	GHB1060		GHBGFEP1060		60	GHB2060		60	GHB3060
	70	GHB1070				70	GHB2070		70	GHB3070
	80	GHB1080				80	GHB2080		80	GHB3080
	90	GHB1090				90	GHB2090		90	GHB3090
	100	GHB1100				100	GHB2100		100	GHB3100

CANADA BRANCH CIRCUIT BREAKERS

NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GBH 347/600Y VAC 125 VDC 14KAIC @ 347/600Y VAC	NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GBH 347/600Y VAC 125 VDC 14KAIC @ 347/600Y VAC	NUMBER OF POLES PER BREAKER	TRIP AMP RATING	GBH 347/600Y VAC 125 VDC 14KAIC @ 347/600Y VAC
(1) ONE POLE	SPARE (HANDLE ONLY)	FUT1000	(2) TWO POLE	SPARE (HANDLE ONLY)	FUT2000	(3) THREE POLE	SPARE (HANDLE ONLY)	FUT3000
	15	GBH1015		15	GBH2015		15	GBH3015
	20	GBH1020		20	GBH2020		20	GBH3020
	25	GBH1025		25	GBH2025		25	GBH3025
	30	GBH1030		30	GBH2030		30	GBH3030
	35	GBH1035		35	GBH2035		35	GBH3035
	40	GBH1040		40	GBH2040		40	GBH3040
	45	GBH1045		45	GBH2045		45	GBH3045
	50	GBH1050		50	GBH2050		50	GBH3050
	60	GBH1060		60	GBH2060		60	GBH3060
	70	GBH1070		70	GBH2070		70	GBH3070
	80	GBH1080		80	GBH2080		80	GBH3080
	90	GBH1090		90	GBH2090		90	GBH3090
	100	GBH1100		100	GBH2100		100	GBH3100

[illegible]



KILLARK®

Harsh & Hazardous

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